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CHAPTER 1:

Sequence of Procedures for the Master's Student

Geology Graduate Program Guidelines - Thesis Option
  Desk Space
  Geology 595
  Suggested Time Table
  Miscellaneous

Registration for Courses

Completing Your Thesis in a Timely Fashion for Thesis-option Students

Progress toward the Degree

Grades and Grading

Graduate Plan of Study

Independent Study Contracts

Course Planning and Requirements

M.S. Plan of Coursework Worksheet

Advancement to Candidacy

Thesis Registration

Application for Masters Degree

Graduation Checklist
Geology Graduate Program Timetables

This timetable is designed to show you the steps needed to graduate in two years. (Also see "Graduating in a Timely Fashion").

1. **Prerequisite courses:** Plan your schedule to complete any prerequisite courses listed on your letter of acceptance as soon as possible.

2. **Geology 595:** Must be taken in each of your first three quarters.

3. **Plan of Study:** The official form should be submitted by the end of your first quarter (it can be amended later if necessary).

4. **Thesis proposal:** Begin work to select an advisor and a thesis topic immediately. (You may need to apply for research grants during January.) A draft of your proposal should be presented to your thesis advisor late in your second quarter or early in your third quarter. Assemble your thesis committee, have the proposal approved, and file your thesis-topic approval card by the end of that quarter. **(Department policy is your proposal must be approved and turned in prior to or at the same time you file your thesis-topic approval card.)**

5. **Advance to Candidacy:** File your Approval of Thesis Project form with the Graduate School. This is needed before you are allowed to register for thesis credits (see Step 4). Attach your signed thesis proposal in PDF format to the Thesis Topic Approval form. [https://esign.wwu.edu/admcs/process/forms/Grad_School/Thesis_Topic_Approval4.aspx](https://esign.wwu.edu/admcs/process/forms/Grad_School/Thesis_Topic_Approval4.aspx)

6. **Field and lab work:** Field work should be done and lab work well underway by the end of your first summer. Finish lab work by the end of Fall quarter.

7. **Writing:** Begin while in the field and continue as you carry out lab work.

8. **Completed thesis draft:** Give it to the Chair of your thesis committee by the middle of Winter quarter of your second year. Once the Chair has read it, make corrections, when he or she is satisfied, circulate it to other committee members.

9. **Blue card:** File your Application for Master's Degree form by the last week of the quarter before you plan to graduate. You must register for at least two credits during the quarter you graduate or the preceding quarter. [https://esign.wwu.edu/admcs/process/forms/Grad_School/Masters_Degree_Application_blue5.aspx](https://esign.wwu.edu/admcs/process/forms/Grad_School/Masters_Degree_Application_blue5.aspx)

10. **Defense draft:** You should have your thesis revised and approved for defense by mid-April of your second year for Spring graduation or by mid-May for Summer graduation.

11. **Thesis defense:** Schedule it during the first week of May or earlier for Spring graduation, by the end of Spring classes for Summer graduation. (Your defense must be at least two weeks after your thesis is approved and "tabled").

12. **Thesis copy to Graduate School:** The final, defended, revised, signed thesis will be due
to the Graduate School for the Dean's approval by about May 15 for Spring graduation and mid July for Summer graduation. Dates vary from year to year.
COMPLETING YOUR THESIS IN A TIMELY FASHION

The Geology faculty is committed to helping you graduate in two years. This implies cooperation between faculty and students to ensure speedy and efficient progress on the course of study and the thesis. However, faculty accept that the time schedule for graduation is your choice (within the 5-year Graduate School limit), unless you are working under a grant made to faculty with time constraints on the completion of the grant. If you choose to take longer than two years, this may be the result of taking additional classes, pursuing many lines of research, or having to work; any of these will require more time.

GOAL SETTING

You should be thinking about thesis topics soon after coming to Western. Opportunities for Sigma Xi, GSA, and AAPG funding require deciding on the thesis topic by January of your first year. Thus, you should work with faculty early to ensure that deadlines for grant proposals can be met.

Although you are encouraged to pursue any topic for which the department has equipment and expertise, experience shows that the better the match between the problem and your adviser's current research interests, the greater will be the benefit to you.

In defining the thesis topic, faculty can help in:

*** Defining the problem and setting limits at the beginning of the research. This is a particularly difficult task as theses tend to expand in scope as they develop and may become mini-Ph.D.s.
*** Defining and planning to obtain the funding needed to complete the objectives of your thesis.
*** Defining the project that will address the problem. The project will normally require one summer of field work and one or two quarters of laboratory work and should be designed so that it can be finished a quarter and a half later.
*** Developing an initial plan to carry out the project. This involves advising on organization of the work and discussing the format of the thesis.

You are encouraged to use the Geology 595 Brown Bag presentation to do background research into the thesis topic (but should feel free to pursue other interests if you wish).

PROGRESS

Faculty play a significant role in the success of their students. By constantly reviewing progress and providing positive feedback and constructive criticism, faculty can help you to meet your goals. You will be encouraged to give poster sessions or talks at the local and regional professional meetings, which provide worthwhile occasions to clarify ideas and organize data. Faculty can organize "show and tell" sessions for groups with common interests. Ultimately, you decide your activities and time table, and faculty respect those decisions.
THESIS WRITING

Theses can get out of hand! Every effort should be made to shorten the thesis, including efficient design of maps and figures, and serious thought should be given to presenting the thesis in "journal publication" format with appendices for large blocks of data or description of methods.

In agreeing to serve as committee chair, faculty take the responsibility to assist you in setting goals, provide guidance on techniques and methods, and analyze your work. Faculty also agree to be available on a regular basis. The writing of the thesis is time-consuming and often difficult. You are encouraged to begin writing from the beginning of the thesis-definition stage and continue writing through the field and laboratory phases of the work. The outline of the thesis should be developed early and revised frequently--with constant faculty review. You should discuss time tables with faculty prior to giving them something to read; then you can expect faculty to return material within two weeks of receiving it.

You should feel free to give chapters to other committee members at any stage of the thesis writing, but generally give them chapters relevant to their interests. Generally, you should not ask other committee members to read large sections of the thesis until the chair is satisfied that the initial revisions are satisfactory. However, in the quarter you expect to defend, the faculty are all prepared to help in whatever way they can. Allow two to three weeks for a committee member to read your thesis, and expect to revise and have it reread, perhaps more than once, before you are ready to defend.

THESIS DEFENSE

The committee does not sign the defense "table copy" until satisfied that the thesis is ready to present to the Graduate School. The defense copy should be an acceptable body of work and be complete, including legible and clear figures with complete captions and details such as a table of contents with page numbers. You are expected to schedule your defense when your committee members are available; the committee chair should always be present (unless away on sabbatical). The defense is a presentation to the community and may take place on any class day of the academic year, and during finals of Spring quarter only. As faculty are generally away in the field, summer defenses will be scheduled only in exceptional circumstances. Permission for a summer defense and its date must be approved by the end of Spring quarter by the thesis committee and the department chair.

GOOD LUCK!
Program Guidelines

1. **Desk Space**
   a. All first-year graduate students will be assigned shared office space.
   b. Second-year graduate students who have filed a thesis proposal will be assigned shared office space.
   c. Third-year graduate students may be assigned office space if space is available, they are enrolled for 2 or more credits, and if, in the opinion of their thesis advisor and the chair, they are making substantial progress toward the thesis.
   d. Space will not be provided beyond the third year.

2. **Use of Department Supplies and Equipment**
   The department does not fund student xeroxing, long distance telephone calls, postage, or general office supplies.
   There are computers available for graduate student use in ES230.

3. **Geology 595**
   Geology 595 is designed to introduce graduate students to the geology of the region, to the research the faculty are doing and to help students finish their thesis in a timely manner. Weekend field trips are offered fall, winter, and spring quarters. You are required to take at least five (5) days of field trips. *There will be a mandatory two (2) day trip fall quarter.* The remaining three (3) days may be obtained by attending field trips from at least two (2) different courses. There will also be workshops on writing grant and thesis proposals. During spring quarter of your first year or fall quarter of your second year, you will make a presentation on your thesis topic. For all three quarters, you are expected to attend guest lectures and the Friday noon Brown-Bag talks.

Registration for Courses
The chair of the Geology Department serves as the Graduate Program Adviser, providing initial registration advice and guidance to new graduate students. Students should develop their Plan of Study during their first quarter of graduate work and have it approved (It can be changed later if necessary). See Course Planning and Planning Worksheets later in this chapter.

Graduate students register for classes using the Web for Student registration materials supplied by the Registrar. Registration for independent study requires use of the "Directed Independent Study" course card (see Appendix I) and an Independent Study Contract. This card also requires a signature from the Graduate School. The Graduate School requires a copy of the Independent Study Contract.
Progress Toward Degree
Satisfactory progress is required. The program must be completed in five years, requires a "B" (3.0) GPA, and regular (if not continuous) enrollment. Courses to satisfy background requirements are to be first priorities. Students are encouraged to seek frequent evaluations from the Graduate Program Adviser or their Faculty Research Adviser.

Academic Load

For full-time graduate students the maximum academic load is 16 credits during a single academic quarter. The typical load is considerably less. The Graduate School defines full-time enrollment as 8 or more credits per quarter, but some forms of financial aid require 10 or more for the full-time student.

A full-time graduate assistantship requires 20 hours of service per week to the department or program and can limit the number of credits the assistant may take in one academic quarter. A full-time assistantship does not allow for additional salary or employment from the University.

Transfer, Extension, Correspondence, Workshops

Transfer of credits into a student's graduate program is limited to nine quarter hours. Such credits must meet the requirements of the student's program and be approved by the Graduate Program Adviser and the Graduate School (see Appendix I). The courses can be taken before or after enrollment at WWU.

Grades and Grading

Students must maintain at least a 3.0 grade point average for their core courses (those on the Graduate Plan of Study) with no grades below C- and no more than 10 credits below B-. A grade of C+ or lower counts towards the 10-credit maximum, even if the course is repeated and an A or B is earned. Pass/Fail grades are not applicable toward a graduate degree; however, S/U grades are.

Graduate Plan of Study

The student and the Faculty Research Adviser develop a "Plan of Study" (see Appendix I). After being signed by the student's Faculty Research Adviser, the Plan of Study is signed by the student and given to Chris Sutton in the Geology office for signature by the Graduate Program Adviser. When all is in order, the form is sent to the Graduate Dean for final approval and signature. See example following.

The Graduate Plan of Study is very important, as it specifies minimum curricular requirements which must be met, and it serves as a means for the Graduate School to determine whether all these requirements will be satisfied. This form should be filed by the end of your first quarter.

Graduate students are free to enroll in courses not on their Plan of Study. The Plan of Study is simply the approved courses which must be completed in order to meet the M.S. coursework requirements. Courses not on the Plan of Study may be audited or taken Pass-Fail, at the students discretion, and they do not count in your grade point average.

Credits and Financial Aid

New Federal rules specify that you can receive financial aid for no more than 56 credits in the geology M.S. program (125% of the required 45 credits).
M.S. IN GEOLOGY

Core Course Requirements

45 credit hours, including:
- at least one quarter of full enrollment (8-10 credits)
- 6 credits of Geology 595 (brown bag seminar) two each quarter during the 1st year
- 12 credits of Geology 690 (thesis)
  (you may take more than 12 thesis credits, but
   only 12 credits will count towards the 45 required credit
   hours, and only 12 will be graded.)

Credits and Financial Aid

New Federal rules specify that you can receive financial aid for no more than 56 credits in the geology M.S. program (125% of the required 45 credits). Be sure to keep this limit in mind when planning your program with your thesis advisor.

Additional credits to be selected under advisement as appropriate for your area of specialty (consult with chair and with faculty members in your area of interest)

up to 9 transfer credits, by special arrangement only

with no more than:
- 16 credits per quarter
- 10 credits of 400-level course work
- 10 credits of independent study (Geology 500)

You must be registered for at least two credits during the quarter in which you graduate. Most students save two credits of Geology 690 for that quarter.

Requirements Specified at the Time of Admission

You should work to satisfy any such requirements for prerequisite courses as soon as possible.

Grade Requirements

You must maintain at least a 3.0 GPA for your core courses. Your core courses may include no grades lower than C- and no more than 10 credits with grades below B-. 
DEPARTMENT OF GEOLOGY
SUGGESTED COURSEWORK BY SPECIALTY AREA
M.S. Degree

All students must take 6 credits of Geology 595 and at least 12 credits of 690 (thesis). Graduate Council rules require that you take 45 credits in your graduate program, no more than 10 credits of which can be at the 400 level. If your letter of acceptance specified prerequisite courses, you must also complete them, if you have not already. They do not count towards the required 45 credits.

In addition to the general requirements, you will be choosing a specialty for your thesis work, and the bulk of your courses will be related to that specialty. Your course of study is determined under advisement by the department chair and, once you know who it is, by your thesis advisor. The courses below have been selected by the Geology faculty as the most relevant for the specialties listed.

**Economic Geology:** undergraduate background should include mineralogy, petrology, structural geology, and stratigraphy and sedimentation; graduate work could include 406, 407, 523, 524, 550, 560, 561, 572, 573.

**Tectonics/Geophysics/Structural Geology:** undergraduate background should include mineralogy, petrology, structural geology, stratigraphy and sedimentation, geophysics, and strength in math and physics; graduate work could include 518, 548, 549, 550, 551, 552, 553, 554, 556, 557, 558, 559.

**Geomorphology and Coastal Processes:** undergraduate background should include mineralogy, petrology, geomorphology, stratigraphy and sedimentation, and structural geology; graduate work could include 513, 530, 540, 572, 573.

**Hydrology and Applied Geology:** undergraduate background should include mineralogy, geomorphology, geophysics, stratigraphy and sedimentation; graduate work could include 513, 552, 561, 562, 570, 572, 573, 574, and appropriate courses in soils and potential field methods. Additional courses given by the Chemistry Department and Huxley College are recommended under advisement.

**Paleontology:** undergraduate background should include historical geology, paleontology, stratigraphy and sedimentation, and zoology; graduate work could include 524, 528, 536, 553, Biology 407, 490, 461, 503, 507.

**Igneous and Metamorphic Petrology:** undergraduate background should include mineralogy, petrology, optical mineralogy, structural geology, and stratigraphy and sedimentation; graduate work could include 523, 525, 550, 551, 553, 556, 560, 561 and courses in Chemistry selected under advisement.

**Stratigraphy/Sedimentary Petrology:** undergraduate work should include historical geology, mineralogy, petrology, structural geology, paleontology, and stratigraphy and sedimentation; graduate work could include 406, 407, 523, 524, 525, 528, 536, 561, 572.

You are not required to take all the courses listed under your area of specialty, and some may not be offered while you are at Western. Other courses may be developed that would be good for your interests. Often an Independent Study course, Geology 500, may fit your needs. Your plan of study is
developed in consultation with your advisors.
PLAN OF COURSE WORK WORKSHEET

First Year

Fall Quarter
Geology 595 (2 credits)

__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

submitted an official Plan of Study

Winter Quarter
Geology 595 (2 credits)

__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Meet with faculty to develop thesis proposal.

Spring Quarter
Geology 595 (2 credits)

__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Thesis proposal approval.

By the end of Spring quarter, you should have:
completed Geology 595
cleared all entrance requirements
submitted a thesis proposal and Thesis Approval form

Summer Quarter
Thesis field work
Most of your thesis lab work will be done this quarter.

Winter Quarter

Complete the first draft of your thesis before the middle of the quarter. Your thesis advisor to approve your draft for distribution to other committee members by the end of Winter Quarter.

Spring Quarter

Finish and defend your thesis!
Advancement to Candidacy
The next step after a student's Plan of Study has been approved and filed in the Graduate School office is Advancement to Candidacy. Advancement to degree candidacy is formal recognition that the student has completed all admission requirements, has demonstrated satisfactory performance in at least 12 credits of graduate study, and has submitted an approved thesis proposal. The student must have completed at least 12 credits from the Plan of Study with grades of B or better. If the student was initially admitted provisionally, advancement to candidacy cannot be made until this status is changed to full admission. No thesis coursework (Geol 690) may be undertaken until the student is advanced to candidacy (turned in their approved thesis proposal and signed Thesis Topic Approval card). Advancement is granted by the Graduate School upon the recommendation of the Department Chair. Normally, a student should have been advanced to candidacy by the end of her or his third quarter at Western.

Application for Master's Degree
The Master's degree is earned at the end of the quarter in which the student completes all degree requirements, provided all Graduate School deadlines have been met. Application for the degree must be made no later than the end of the quarter before which the student wishes the degree officially recorded. Application is made using the "Application for Master's Degree" card (also called a blue card, see Appendix III). A diploma fee will be charged. Do not apply for your degree until you are very sure your thesis is approved and when you will be defending. You are responsible for informing the Graduate School if you will not be defending the quarter you have applied for graduation in. The Graduate School can provide you with a letter of completion necessary for applying for employment when you have defended and turned in your thesis but have just not been awarded your degree.

Thesis Registration
Because Geology 690 is a variable credit course, the student must have an override code entered by both the Department of Geology and the Graduate School prior to registering. Contact both and have them enter the override code, then register (see instructions on next page). A total of 12 credits of Geology 690 is required; however, you may take more thesis credits, for example, to maintain full-time status. New Federal rules specify that you can receive financial aid for no more than 56 credits in the geology M.S. program (125% of the required 45 credits). Be sure to keep this limit in mind when planning your program with your thesis advisor.

A "K" (incomplete) grade is given for thesis credits (Geol 690) until the thesis is completed. Then the final grade is given and the "Ks" become the final grade, e.g. K,K,K,K,A becomes A,A,A,A,A. This occurs when the thesis committee chair sends to the Graduate School the final grade for the thesis and information about the number of credits to be allowed on the Recommendation for Master's Degree form (see Appendix I). No more than 12 thesis credits will be converted from K to a letter grade. Any additional thesis credits will remain as K permanently.

The Graduate School will notify the Registrar of the final grade, and the change from "K" to the final grade will be made.
Registration during Final Quarter
A student must be enrolled for at least two credits during the quarter in which the program is completed or during the preceding (calendar) quarter.
Graduation Checklist

1. Have I completed all prerequisite courses by the end of the 1st year?

2. Have I filed my Plan of Study by the end of the 1st Fall quarter?

3. Have I turned in my thesis proposal and filed the thesis topic approval card by the end of Spring quarter my 1st year?

4. Have I completed all the courses listed on my Plan of Study?

5. Are all "K" (incomplete) and "X" (missing) grades taken care of?

6. Do I have the List of Important Dates from the Graduate School for the quarter I intend to graduate and have I applied for a degree?

7. Have I completed at least 12 credits of Geology 690?

8. Has my Application for Master’s Degree card (blue card) been filed.

9. Have I registered for at least two credits during my final quarter during the academic-year quarter preceding the final quarter?

10. Has my thesis been approved for defense and tabled?

11. Has my thesis been defended?

12. Has the revised thesis been signed by my thesis committee and the Dean of the Graduate School?

If all answers are YES, then I'm done. Hurrah!
CHAPTER 2:
YOUR THESIS FROM PROPOSAL TO PRINTING

MS in Two Years

The Thesis Committee

Thesis Proposals & Defense Signature Page

Proposal Cover Sheet Example

Thesis Writing

Approval for Defense Signature Sheet

The Thesis Defense

Thesis Title Sheets
  Committee Signature Page
  Authorization/Copyright Page
  Title Page

Thesis Manuscript Regulations

Journal Thesis Option

Thesis Manuscript Suggestions

Thesis Copy/Duplication Guidelines

Thesis Copies

Thesis Collections
MS in Two Years

Deadlines

Fall Year 1 (1st Quarter)

Enter MS program (with few or no prerequisite courses). Take 10 to 16 credits of courses pertinent to your MS program, including any prerequisite courses. Complete your Plan of Study and submit it. Investigate possible thesis topics with appropriate professors, decide on thesis advisor, and start writing grant proposals and your thesis proposal.

Winter Year 1 (2nd Quarter)

Take 10 to 16 credits of courses pertinent to your MS program. Submit grant proposals to GSA, Sigma Xi, AAPG, or other agencies. Finish the first draft of your thesis proposal, and decide on the members of your thesis committee. Proofread and revise proposal before giving it to your thesis committee chair for comments.

Spring Year 1 (3rd Quarter)

Complete required 33 credits of course work and all prerequisite courses by the end of the quarter. (One course in year two could be taken if you are good at managing your time and unlikely to suffer writer's block.) Revise thesis proposal per Chair's comments and give to all committee members for comments. Submit additional grant proposals. Rewrite thesis proposal. If committee member's opinions differ, hold a committee meeting to work out areas of disagreement before rewriting. When proposal is approved, submit Approval of Thesis Topic card.

*Credits and Financial Aid

New Federal rules specify that you can receive financial aid for no more than 56 credits in the geology M.S. program (125% of the required 45 credits). Be sure to keep this limit in mind when planning your program with your thesis advisor.

Deadlines

| Plan of Study | Submit by the end of fall quarter |
| Thesis Proposal | Submit by end of May |
| Required 33 Credits of Course work | Complete by end of third quarter |

Summer Year 1 (4th Quarter)

Data collection in field or lab depending on nature of thesis research. Work should be done or nearly done by the end of summer.
Fall Year 2 (5th Quarter)

Complete field work and lab work. Start writing your thesis. Take a course or courses only if you have little or no field and lab work to do this quarter or if the remaining course you need is offered only in fall.

Winter Year 2 (6th Quarter)

Complete writing thesis by mid quarter. Edit and revise each chapter at least two days after writing it. Give chapter by chapter or as complete draft to your thesis advisor. Discuss your advisor's comments with him or her, then revise thesis, taking comments into account.

Spring Year 2 (7th Quarter)

Register for at least two credits, as required by the Graduate School for your final quarter (quarter before summer graduation is okay). Revised thesis to all committee members by the beginning of classes; allow at least three weeks for them to read it. Revise thesis to incorporate committee suggestions; if necessary hold a committee meeting first to discuss any divergent views. Have committee sign thesis as ready to defend. Table defense copies (2). Present your defense. Submit your Application for Degree (blue card) to the Graduate School.

**Deadlines**

<table>
<thead>
<tr>
<th>Week</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Table Thesis</td>
</tr>
<tr>
<td>8</td>
<td>Defend Thesis</td>
</tr>
<tr>
<td>10</td>
<td>File Application for M.S. Degree (blue card) with Graduate School</td>
</tr>
</tbody>
</table>

Summer Year 2 (8th Quarter)

**Deadline**

Revise defense copy, complete drafting, assemble final copy, take thesis to committee members for their signatures; deliver to Graduate School for Dean's signature. Be ready to make any changes he requires. Take signed thesis to copy/duplicating for printing.

**Deadlines**

<table>
<thead>
<tr>
<th>Week</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 or 4 (check exact date)</td>
<td>Submit complete, signed thesis to Graduate School Dean</td>
</tr>
<tr>
<td>6 (check exact date)</td>
<td>All K grades including thesis Ks must be cleared (submit white Faculty Recommendation card)</td>
</tr>
<tr>
<td>8</td>
<td>Commencement (attendance not required)</td>
</tr>
</tbody>
</table>
Deadlines for graduating in June after 7 quarters

Note: You may be able to finish and graduate at the end of Quarter 7, if the wind is right, your committee members are all on campus, and you move up a few deadlines. These deadlines follow:

End of Winter Year 2 (6th Quarter)

Submit complete thesis, revised based on your advisor's comments to your whole committee.

Week 10 File Application for MS Degree (blue card) with Graduate School.

Spring Year 2

Week 1 Register for at least 2 credits.

Week 1 & 2 Revise thesis based on committee member's comments; get their signatures that thesis is ready to defend.

Week 2 or early week 3 Table thesis (two copies)

Week 4 or early week 5 Defend thesis, then revise as needed and return to committee for signatures.

Week 6 (check exact date) Submit complete, signed thesis to Graduate Dean.

Week 8 All K grades must be cleared and recorded in Registrar's office (Faculty Recommendation for Degree, white card submitted)

Week 10 Commencement
SELECTING A FACULTY RESEARCH ADVISOR (thesis committee chair)

One of the main things that students need to think about early during their graduate studies is selecting an advisor for their thesis work. You're not stuck with the person you were assigned to when you entered graduate school; you should find the faculty member whose interests, expertise, and advising style fit best with your own goals and personality. Although the WWU General Catalog and the courses you take are valuable sources of information about faculty, the most important resource in picking an advisor is other students, who can tell you what it's really like to work with a person, and your own experience seeking out and talking with the faculty.

There are several things you should consider in choosing an advisor, some obvious and some, perhaps, not. The following list is not intended to be exhaustive, but simply to suggest issues that you might want to think about when considering faculty members as possible advisors.

- What are their research interests, expertise, and theoretical orientation? Can they provide you with the guidance you'll need in writing your thesis? Will you be comfortable with the scientific approaches that they are likely to recommend?

- What will they be like to work with? Are they supportive, reliable, constructively critical, and able to communicate well with you? Equally important, and sometimes overlooked, how busy are they? Almost any advisor who is willing to work closely with you is likely to be more helpful than the "ideal" mentor who never has time to see you or read your work.

- How good are they at getting their students through the requirements and over the finish line? What is their advisees' track record in getting proposals (both grant proposals and thesis proposals) written and approved? How long do their advisees take to finish their theses? How well do they work with the other faculty members whom you might want on your committee?

- How long are they likely to be at Western? A temporary faculty member may no longer be at Western when you finish.

- Finally, although not every student will need to consider this, how helpful are they likely to be in getting you a job or into a Ph.D. program once you're finished? What is their reputation in their field, and how extensive is their network of contacts? How strongly will they support you when they write letters of recommendation?
The Thesis Committee

The student together with the Faculty Research Advisor selects the thesis committee, which must have at least three members. The Faculty Research Adviser, who must be from the Geology Department, chairs the committee. At least one additional committee member must hold a regular faculty appointment in the Geology Department. Other committee members may be appropriate faculty from other departments, research associates, or from outside the university.

The student submits the names of the committee members on the Thesis Approval card (see Appendix I) together with the approved thesis proposal to the Department Chair for his or her signature. The proposal goes to the student's file, and the card is taken to the Graduate School.

The Graduate Dean formally appoints the committee. The student is officially notified of her or his committee membership by the Graduate School office. The committee's function is to advise on and consent to the thesis topic, to act as consultants during the course of the research and writing, to judge when the thesis is ready for defense, and to approve the final thesis before it is submitted to the Graduate School.

Normally, appointments to the thesis committee are permanent. However, circumstances may arise that make a change desirable. Any change in the membership of the thesis committee should be initiated by memo to the Graduate School by the Department Chair.

It is up to the student and the student's thesis committee to design the details of the actual thesis project. If difficulties arise, or if project modification is necessary, it is important to discuss the matter with all committee members, preferably as a group rather than individually.
Thesis Proposals

Consult your thesis advisor and other committee members about what format they think suits your topic. There is no set format for a proposal, but it will probably be easier in the long run to use the margins, heading style, and so forth that are required for the thesis. Then you'll be able to move parts of the proposal directly into your thesis. Use the model on the following page when you fashion the signature page for your proposal. The section of this Handbook on Thesis Manuscript Regulations covers requirements for the thesis itself.

How long should a thesis proposal be?
A proposal needs to be as long as necessary to state what needs saying, and not a word longer. Typically it will be 5-6 pages, but some faculty prefer a longer proposal with a full discussion of previous work.

What things need to be covered in a thesis proposal?
Although different topics may need you to say different things, the sections listed below will be needed in nearly all proposals.

- An introduction to the particular problem that you will be trying to solve, including why the problem is worth solving.
- Enough background to assure two things:
  - that the problem is understandable to geologists outside the specialty, such as the second and third members of the thesis committee.
  - that you are familiar with the work that has already been done in the area, understand it, and know how your work fits into the pattern of what has already been done.
- A more detailed discussion of the problem, in particular stating hypotheses, which of them you plan to test, and how you envision testing them - how the research will be approached. You should specify what the possible outcomes of the tests will say about the hypotheses, which outcome would refute a hypothesis and which would support it.
- The importance of the proposed research as compared to alternative approaches (a justification).
- A description of the study area, and why that area was selected.
- A discussion of the anticipated (or potential) results and potential implications. Depending upon the nature of the project and the particular advisor, you may also need to describe the estimated time line for the project and give a budget.
- Plans for publication of the results.
- References.

How should I get started?
Try using the list of sections above as the basis for an outline. Share that outline with your advisor (and committee members). Ask your advisor if you may see a copy of a successful proposal by one of his or her students.

When is the first draft ready to show to my advisor?
The “first draft” that your advisor gets should not be the first one you write. Talk to your advisor about what and how you should write as you go along, but don’t hand in a draft until you know it is well written. Your draft will help shape your advisor’s view of your talent as a writer and as a geologist. So write a complete draft, let it sit for a couple of days, ask a friend to look it over, then review and rewrite. Correct typos. And be sure to run a spell check before turning it in!
Writing a thesis teaches not just how to plan and carry out a research project and the scientific skills needed but also how to negotiate for approval and manage your time. When you write, follow the format explained in this handbook. The way to write is to write. Start as early as you have anything to say, and work closely with your thesis advisor. Talk to your committee members and get their advice about both science and its presentation. They may not all agree, and you need to get disagreements resolved early. A group meeting of you and your whole committee is a good way to work out problems. And keep on writing. It is usually easier to write about research methods, for example, as you are carrying them out.

It takes a great deal of time to write your thesis. As a rule of thumb you'll need to have your first complete draft to your committee prior to the quarter in which you plan to graduate and by the beginning of the quarter in which you plan to defend.

If a thesis committee member is expecting a draft of your thesis and gets it on schedule, normally you can expect to get the draft back with comments in two weeks or less. Normally excludes drafts that are delivered when the committee member is, will be, or just has been away from campus; or is completing a major project; or has informed the student that longer will be needed. Normally also excludes drafts that haven't been well organized and thoroughly edited and proofread by the author. Once you get a draft back, it is up to you to talk to your committee members and work out what changes are needed for them to give their approval.

Once you think you have a draft that your committee will approve as ready for defense, circulate it to the members with a special signature page attached. That page should give your name and thesis title, followed by the sentence:

We have read this thesis and approve it for defense.

Also include lines for the necessary signatures. (See the sample page that follows.) All committee members should sign the same Defense Signature Page.

Graduating in a Timely Fashion, in the first chapter of this handbook, also has suggestions for writing your thesis.
We have read this thesis and approve it for defense.

Chair

________________________________________
________________________________________
________________________________________
The Thesis Defense

The Defense Copies of the Thesis (submit two copies)

The defense copies or "table copies" of your thesis should be an acceptable body of work and be complete, including legible and clear figures with complete captions, table of contents with page numbers, page numbers throughout, abstract, complete reference list, and all maps, appendices, and such that will be in the final thesis.

Your committee members do not sign the defense signature page until satisfied that the thesis is ready to submit to the Graduate School. The table copies need not be in the final printed form on bond paper. The page numbers may be written in by hand, and minor corrections may be made in ink; however, a non-geologist should be able to type the final copy from the "table copy" with no consultation.

Submit two copies to the Geology Department office and tell them the date you prefer to hold your defense. Clear the date and time with your committee members, who are all expected to attend. A room for your defense will be reserved at this time. One of your “table copies” will be available for comment in the department office and the other will be sent to the Graduate School for your Graduate Council representative.

Timing of the Thesis Defense

The date of your thesis defense will be at least two weeks after the defense copy of your thesis is ready, signed, and available in the Geology Department office.

Thesis defenses may take place on any class day of the academic year and, for Spring quarter only, during finals week. Because faculty and the rest of the geological community are frequently away in the field, summer defenses will be scheduled only in exceptional circumstances. Permission for a summer defense and its date must be approved by the end of Spring quarter by the thesis committee and the department chair.

Your thesis committee members are expected to be present at your thesis defense. You are responsible for arranging with the members of your committee a defense date that will be convenient for them all. Exceptions are made only when a committee member is out of town for an extended period. If you are trying to arrange a defense date to suit your family or employers as well as your committee, ask everyone involved for their schedules early, well before you plan to schedule your defense.

Thesis defenses are usually held at 4:00 p.m. so that they do not conflict with classes.

Allow at least two weeks after your defense for making changes to address comments written on your defense copy and points raised at your thesis defense. More time may be needed, especially if the figures and tables in your defense copy are not in final form. Your advisor can help you estimate the time needed. Keep in mind that this rewriting may change your quarter of completion if the Graduate School deadlines cannot be met. See following section for requirements for the format of your thesis.
TITLE OF THESIS

BY

(Student's Name)

Accepted in Partial Completion

of the Requirements for the Degree

Master of Science
(Your Degree)

_______________________________________________
Moheb A. Ghali, Dean of Graduate School

ADVISORY COMMITTEE

___________________________________________________
Chair, Dr. ___________________

___________________________________________________
Dr. _______________________

____________________________________________________
Dr. _____________________

___________________________________________________
Dr. ___________________

___________________________________________________
Dr. ___________________

[Please make sure to type the names below the signature lines.]
Journal Article Thesis

In the Journal Article Thesis, the candidate divides the thesis into two parts. The first part is one or more articles prepared according to the style requirements of a national or international scholarly journal so that the article(s) is (are) suitable for publication. The article(s) should avoid extreme brevity and be understandable to the members of the candidate’s thesis committee even if this necessitates some elaboration of the standard article format. The second part of this thesis provides greater context and/or supporting information for the article(s).

Specific requirements are:

1. The student must use the publication style of either (1) one of the discipline’s reading periodicals or (2) the published standards of the Geological Society of America Bulletin for the article(s). Two or more articles included in the same thesis may have different styles if written for different journals.

2. The Abstract is a summary of the entire thesis.

3. In the Tabled version only, the Citation page will give the literature citation for each published article included or specific information concerning submission for publication (i.e., name of journal and date of acceptance for publication or date of submission to journal). Do not include in the post-defense copy.

4. The main body of the thesis will include one or more articles in approved journal or periodical style. The following are also required, if not included (or deemed too brief by the thesis committee) in the journal article(s): (1) a Comprehensive Introduction and (2) a Comprehensive Methodology to precede the individual articles to provide an integrated perspective to the total body of research and literature, and to the details of the methods used.

5. All references for all parts of the thesis will be included in a Comprehensive References Cited section, including all references from the article or articles and all references from other sections, including Comprehensive Introduction and Comprehensive Methodology if those are used. No portions should have separate reference sections.

6. Any article comprising a major portion of a thesis must be the work of the student. The student must be the sole author or, if there is more than one author, the primary and first listed author of articles prepared for publication. In situations of more than one author, it is the responsibility of the thesis committee to determine that the research and writing is indeed that of the candidate for the degree.

7. The Journal Article Thesis contains appropriate appendices needed for detailed and ancillary information required for completeness and explanation but not usually presented in a published paper.

8. The manuscript(s) that forms the core of the journal-thesis option must be submitted to the journal publisher for scholarly review prior to submitting the thesis to the Graduate School; the manuscript need not be accepted, however. In addition, regardless of the publication status of the manuscript, the manuscript must be accepted by the thesis committee before submission to the
Graduate School, and any comments or criticisms from the committee that are noted in the tabled copy and during the defense must be dealt with to the satisfaction of the thesis committee. Publication of a thesis manuscript is not sufficient in itself for the degree.

NOTE: THE COMPREHENSIVE BIBLIOGRAPHY MUST BE IN ALPHABETICAL ORDER BY LAST NAME OF AUTHOR.

Each article will contain its own Reference section in addition to the Comprehensive References Cited section.

The organization of a Journal Article Thesis/Dissertation is as follows:

Committee Signature Page
Authorization/Copyright Page(s)
Title Page
Abstract Page - for entire thesis (one only)
Citation Page - special requirement - table copy only
Acknowledgement Page (optional) include anyone who contributed to or who will be a co-author of the paper (or you may include this information as an Appendix)
Table of Contents
List of Tables
List of Figures
Comprehensive Introduction (if not included in journal article(s))
Comprehensive Methodology (if not included in journal article(s))
Articles(s) - Format follows journals’ specific requirements
Comprehensive References - Alphabetical order by last name of author
Appendixes (optional)
Vita (optional)
Pocket Material (optional)

In all provisions expect the Article(s) itself - which follows the format of a scholarly journal - the directives and requirements of the Graduate School and the Geology Department, as listed in the WWU Graduate Student Handbook, shall govern the preparation of a Journal Article Thesis.

MECHANICAL FORMAT FOR STANDARD AND JOURNAL ARTICLE THESES

The Standard Thesis and the Journal Article Thesis differ in organization and placement of material, but not in overall content, scholarship, or clarity or presentation. Both plans have an identical title page, signature page, authorization page, abstract, table of contents, and mechanical format (margins, pagination, etc.).

The candidate’s graduate advisor supervises the preparation of the thesis. Regardless of style and format, all theses must be prepared in accordance with accepted standards of academic integrity, including proper citation and attribution of all material that is not the original product of the writer. When preparing theses, candidates are expected to consult their graduate advisor and thesis committee regarding specific thesis preparation problems. The thesis committee and Candidate is also responsible for consulting the Graduate School regarding University requirements and thesis deadlines.
EXAMPLE CITATION Page for JOURNAL Format
(Required for the table copy but not included in the defended and signed thesis)

This page MUST BE APPROVED by the Thesis Committee. Use correct margins. Spell check.

If one or more of these categories apply, complete the wording below. Follow a journal reference format you have adopted for your thesis or dissertation. See NOTE below.

Citation(s)

Material from this thesis has been published in the following form:


AND/OR

Material from this thesis has been accepted for publication in (name of journal) on (month, day, year) in the following form:


NOTE: The manuscript must be submitted for publication ON OR BEFORE the day you submit your thesis to the Graduate School. Any article comprising a major portion of a thesis or dissertation must be the work of the student. The student must be the sole author or, if there is more than on author, the primary and first listed author or articles prepared for publication.
Thesis Manuscript Regulations

1. **Language**
The thesis must be written in English. All members of your committee must be able to read and critically review the manuscript, and other Geology students should be able to read and cite it.

2. **Arrangement of Pages**
The following arrangement is required:

   a. committee signature page  
   b. authorization/copyright page(s)  
   c. title page  
   d. abstract  
   e. acknowledgments (optional)  
   f. table of contents  
   g. list of figures and tables  
   h. text  
   i. bibliography/references  
   j. appendices (optional)  
   k. vita (optional)  
   l. pocket material (optional)

   **Note:** The Geology office has the Master's Thesis Library Waiver, and the Graduate School has copyright application forms.

3. **Paper**
Use only 8½ by 11 inch, white, 16 to 20 pound bond paper, and type or print on only one side of the page (except for captions for large figures, which may appear facing the figures).

4. **Printing**
Use the same style of type or print throughout the manuscript. You may use bold or italic letters or underline words where appropriate.

**Word processor and printer.** Use either 10 to 13.5 font size, double or 1½-spaced. Use a letter-quality printer.

5. **Margins**
Top, bottom, and right-hand margins should be at least one inch. Left-hand margins should be at least one and one-quarter inches, to provide room for binding. Use the same margin dimensions throughout the manuscript, except for indented lengthy quotes. Page numbers should not intrude into any margin space.

6. **Pagination**
Page numbers should be in the top center, upper right-hand corner, or the bottom-center of the page. The numbers should appear alone, without any bracketing dots or dashes. As noted under Margins above, page numbers should be at least one inch from the margin of the page.

**Preliminary pages.** Use small Roman numerals. The committee signature page, authorization/copyright page(s), and the title page are counted but not numbered. Therefore, the
abstract will be the first page with a number.

Text. Use Arabic numerals. The first page of the text is counted but not numbered. Therefore the second page of the text is page number 2, and this numbering series follows through to the last page, including pages with figures, the bibliography, and the appendices.

7. **Title Page**
Always put the date on your title page. The date should be the month and year in which you hand the signed thesis to the Graduate School office for the Dean's signature.

8. **Headings**
Section headings must correspond to the table of contents, and heading type and location on the pages should be consistent throughout the thesis.

   Primary headings are centered and all in capitals. Primary headings, which begin major sections of the thesis, should begin a new page.
   Secondary headings are centered with all words except articles and prepositions capitalized.
   Third-level headings begin at the left side of the page. All words except articles and prepositions are capitalized.
   Fourth-level headings resemble third-level headings, except they are indented.

   Headings may be bold-printed or not, as you wish. If you do not print them in bold, double the space between the heading and the text that follows it.

9. **Captions**
Captions should be in the same type or print style as the text, but the lines may be single-spaced. Captions come under their figures.

10. **Basic Typing Rule**
**ALWAYS** double-space at the end of a sentence and following a colon!
Thesis Manuscript Suggestions

Common Errors
Manuscripts must be clean of typos, spelling errors, and serious grammatical errors. The following list indicates the major types of errors that have led past theses to be returned unsigned by the Dean of the Graduate School. Proofread carefully to avoid these (and other) errors.

Spelling
Run a spell-check if you are working on a computer, but watch out for homonyms such as here-hear, you-you're, its-it's, and their-there-they're.

Typographical Errors
A spell-check will catch some typos but will leave those that form words. Proofread carefully, preferably at least a day after you last worked on a section.

Grammar
The most common grammatical mistakes are mixed tenses and mixed numbers (e.g., singular subject with plural verb) within a sentence. Also avoid excessively long sentences.

Citation-Reference
There must be a reference for each citation in the text and a citation for every reference in the reference list. The spelling of the author's name and the publication year must match between citation in the text and the reference entry. Where there are multiple citations in one set of parentheses, they must be either in chronological or alphabetical order, with the order consistent throughout.

Be consistent in citation and reference style throughout. Pick a geological or geophysical journal and use its style. Consult with your thesis advisor about an appropriate journal. Geological Society of American Bulletin has one commonly-used style, but you may prefer to use the style of the journal in which you plan to publish your results.

Drafts
Your committee will be better able to help you (and more disposed to help you) if you avoid these errors in drafts as well as in the final thesis. You should make each draft as good as you possibly can before giving it to committee members.
Proofreading

It is essential that you review your manuscript carefully and repeatedly before you consider it accurate and complete. This is your responsibility and should be done for all drafts as well as for the defense copy and the final copy. Leaf through the manuscript to see that all the pages are included and numbered correctly, then check again that heading types and locations are correct. Read the text carefully looking for errors in typing, spelling, and grammar. Go through it again checking every citation against the corresponding entry in the reference section.

A good example to use for checking form would be Ben Farrell's thesis, #165.

Computer Files

We highly recommend that you type each major section of your thesis as a separate file on the computer; in the event of a computer/disk/file/user error, only a portion of your work will be lost. Also, remember to back up your work frequently.
Thesis Copies

Three hard-bound copies with all photos and maps must be given to the University (one for the Geology Department, two for the Graduate School, both of which are accessioned in Wilson Library); give them all to the Chair's Assistant and she will distribute them. In addition, the Department of Natural Resources would like a soft-bound or digital copy of any thesis done concerning the state of Washington. Give this copy also to the Chair's Assistant, and she will forward them to the State Library.

The Chair of your thesis committee and the other committee members should be asked if they want copies. Generally they will. Order these copies with the others. These generally do not have to be hard-bound.

Don't forget to get a copy or two for yourself.

When you take your thesis to be bound, you will need to specify how the title will appear on the cover. For the cover, you are restricted to no more than four lines each of no more than 50 characters including spaces. There are no restrictions on the title for the title page.
Thesis Collections

Consult with your thesis committee at the time you are writing your thesis proposal to find out how extensive a collection of samples they expect you to leave with the department. Generally significant samples and those referred to specifically in the thesis are expected to be left with the department in support of your work. You are responsible for leaving your thesis specimens properly labeled and identified, according to the following standards.

a. Each project is given an accession number and all specimens must have that number on them, eg. 224 printed on a white paint spot. There is no need to renumber rocks serially. The other numbers on the rocks will be those of the student's choice, eg. JC-434 for a serial method or JC-88-22 for an annual method.

b. Save only those specimens referred to by number in your thesis. The minimum information on each specimen (best put in an Appendix, otherwise in the specimen catalog) is: (1) specimen number; (2) locality (give map coordinates or refer to a specimen locality map); (3) formation name; (4) page reference to thesis or description of rock and its occurrence.
<table>
<thead>
<tr>
<th>TYPE</th>
<th>ELIGIBILITY (WHO CAN GET IT)</th>
<th>HOW NOMINATED</th>
<th>PROCEDURE (HOW AWARDED)</th>
<th>BENEFITS/AWARD AMOUNT</th>
<th>OTHER RESTRICTIONS AND COMMENTS</th>
</tr>
</thead>
</table>
| Teaching Assistantship, also called TA | 1. Full admit  
2. 3.0 GPA if current student  
3. FT enrolled (8 credit minimum)  
4. Credit must be through WWU | Department selects from among TA applications completed by students and forwards names to the Graduate Office. | Graduate Office checks for eligibility requirements.  
Graduate Council approves.  
Graduate Office forwards department initiated PA to Student Accounts with a copy to the Student Employment Office.  
Graduate Office informs the student by letter. | 1. Salary set by State and/or WWU for 2010/2009 is $11,190  
2. Student pays a portion of tuition upfront when registering, the health fee and other misc. fees.  
3. A partial tuition waiver is in effect for all full-time assistants. Out-of-State tuition is also partially waived for non-residents who are full-time assistants. | Students may not have other WWU employment.  
Student Accounts monitors credit load. If students drop below 8 credits or withdraw, they are ineligible for the waiver, which must then be repaid.  
If the student is a non-resident, only full appointment (not half) as a TA qualified him/her for partial reduction of the out-of-state tuition.  
Students are obliged to provide 20 hours per week of supervised service. |
| Research Assistantship, also called RA | 1. Full admit  
2. 3.0 GPA if current student  
3. FT enrolled (8 credit minimum)  
4. Credit must be through WWU | Faculty member with a grant selects the RA. | Bureau for Faculty Research checks for eligibility requirements.  
BFR forwards department initiated PA. | 1. Salary determined by grant budget.  
2. Most grants pay tuition. | Graduate Office monitors registration and cancels appointment if credits fall below eight.  
Students are obliged to provide 20 hours per week of supervised service. |
| Reciprocity | Student must be a bona fide resident of B.C.  
Student must be full admit and should have demonstrated ability (normally one successful quarter).  
Student must be enrolled for 10 credits in regular WWU classes. | Student completes reciprocity application form. | Graduate Office checks for eligibility. The total number of recipients is limited. Preference is given to BC students enrolled in graduate programs not available in B.C. Graduate Office notifies Registrar's Office of recipients, which in turn notifies Student Accounts. | Student pays in-state fees for quarters he/she has been awarded reciprocity (award may be for one, two or three quarters).  
There is no guarantee of renewal for subsequent quarters. | Student may not hold a full-time TAship.  
Student Accounts monitors the number of credits registered for. If student falls below, student is billed by Student Accounts for the difference of in- and out-of-state tuition. |
| Graduate Tuition Waiver Scholarship (State funding) | 1. U.S. citizen or Resident Alien  
2. Full admit  
3. Good academic standing  
4. Enrolled for 10 credits  
5. Clear financial need | Department nominates and forwards names to Graduate Office with short statement describing student’s needs. | Graduate Office checks for eligibility. Graduate Council recommends to the Graduate Dean. Graduate Office completes scholarship award form and forwards it to the Financial Aid office which notifies Student Accounts. | Student pays $300 less at the time operation and tuition fees are due ($300 for each quarter of the award). | Student may not have either a full or half time TA appointment.  
Student accounts monitors student's credit load. If credit load is below 10, scholarship is canceled. |

Note: If a department, grant, or faculty member employs a graduate student as a full-time Research or Lab Assistant, the appointment qualifies a non-resident student for in-state tuition and for the reduction in fees and deduction of operational fees from his/her TA salary. Such appointment must clear through the Graduate Office.
APPENDIX 1:
WWU FORMS
When you are ready to file these forms, copies are available from Chris Sutton in the Geology office. Do not make copies of these examples. You may also find forms on the Graduate School Website:
http://www.wwu.edu/gradschool/forms/index.shtml

Sequence of Procedures for the Master's Student
Directed Independent Study Registration Permit
Request for Exemption/Transfer Credit
Graduate Plan of Study
Amendment to Plan of Study
Thesis Topic Approval Card
Application for Master's Degree (blue card)
Master's Defense Form (for thesis defense)
Recommendation for Master's Degree
Name Change Card
APPENDIX 2:
FINANCIAL AID
The Geology Department normally offers financial support as TA or RA only to first-and second-year graduate students.

Financial Aid Options

Application for Graduate School Assistantship - go to Graduate School’s website at: http://www.wwu.edu/gradschool/
APPENDIX 3:
RESEARCH GRANTS

Many forms are now on-line. If you don’t find an on-line source check with Vicki or Chris in the Department Office.

Funds for the Enhancement of Graduate Research (W.W.U.)
Graduate Student’s Travel to Conferences/Ross Travel Grant Application
Sigma Xi Grants-in-Aid of Research Application
AAPG Grants-in-Aid Application
Geological Society of America Research Grant Application
GSA Research Committee Evaluation Checklist
Example of a Successful GSA Research Grant Application
Department of Geology Research Awards Announcement
Mazama Research Grants Announcement
Northwest Fund for the Environment Announcement
APPENDIX 4:
GSA ABSTRACTS

Website Links for meetings:

GSA

http://www.geosociety.org/

http://www.geosociety.org/meetings