And inasmuch as they sought wisdom they might be instructed.
Doctrine & Covenants 1:26

APA Take-home Tests Adobe PDF file

Textbooks

Reference Books. The library contains many texts and reference works on statistics and research design which discuss concepts to be covered in this course. You may feel a need for additional information, or you might want alternate descriptions to those given in the assigned texts or in lecture. The HBLL first floor's BF section has psych research methods texts and the 2nd floor's QA section covers statistics and computer science.

Other Resources
You will be required to submit your sample prospectus for this class in printed and electronic form. This is designed to help you prepare your thesis for Electronic Submission to the Graduate School at the completion of your graduate studies. Please refer to the Electronic Thesis and Dissertation web pages on the following web site:
http://etd.byu.edu/

Also, please thoroughly review the BYU Minimum Standards for Theses and Dissertations web site:
http://www.byu.edu/gradstudies/resources/publications/MinimumStandards.pdf

The Statistical Consulting Center provides free consulting to students, provided they are accompanied by their major professor (more details will be provided in class). The English Department faculty may read your thesis to help identify grammar and punctuation errors for a small fee (approximately $10) (more details will be provided in class).
The Writing Center, 1010 JKHB x8-4306
Course Goals
Students in audiology and speech language pathology need to know how to measure and describe behavior, avoiding pitfalls invalidating measurement. Second, they need to know how to objectively read the literature to access new knowledge throughout their professional careers. Both of these needs are critical to successful research (and successful clinical practice).

In this class we address these needs by studying research methods. Students will learn principles of research design and how to apply the scientific method to clinical assessment and intervention. We will take a “practical” approach to do this, focusing heavily on the thesis that each of you must complete for your master’s degree.

Prerequisites to this Course
The prerequisites to this course are Math 110 and Stat 222. Although we will review some of the material covered in these courses, a basic understanding of statistics will be assumed.

Concepts to be Studied in this Course
The nature of graduate study; characteristics of a strong graduate program
Planning feasible research studies
Reviewing the literature
Components of research articles and theses: overview
  Introduction section
  Review of literature section (appendix to thesis)
  Method section
  Results section
  Discussion section
Selecting a research question
Scientific method, types of research
Terms, concepts, and research methods
Research design, group and single subject
The editorial review & publication process
Ethics in research
APA style
Statistics: basic notions
  statistical methods commonly used in ASLP research
  looking for differences
  looking for relationships
  non-parametric statistics in ASLP research & clinical work
  other statistical methods in ASLP research
  characteristics of good data analysis
Examinations

There will be two examinations. Examinations must be taken on the scheduled date. Exceptions will be made only in "exceptional cases" and should be negotiated well in advance when possible. Examinations will be "closed book". Exams will cover both lecture and text material, about 50/50. The exams will be essay and short answer in nature. The first exam will be administered in class on the date noted in the calendar. The second exam will be administered on the scheduled day during finals week. Each examination will be worth 100 points.

Quizzes

There will be 2 or 3 unannounced quizzes on reading assignments. Each quiz will be worth 25 points.

APA Assignments

There will be 8 APA exams from the APA Style-Student’s Workbook and Training Guide. These are take home exams and you need to submit one exam each Monday. Each take home APA exam is worth 15 points.

Review of the Literature/Prospectus

The final two requirements will be to 1) write a prospectus and 2) submit it to me electronically and in printed form (more details provided in class). This is to be written 100% by you. No other faculty member in our department is to help you in any way with this assignment. This prospectus should be very similar to a research publication (minus results and discussion). More details to be given in class. The prospectus will have several dates where you will have to submit portions of the prospectus. These dates will be announced in class.

A prospectus is a research thesis proposal. There is no guarantee that you will actually be able to use the prospectus that you write. That decision will be up to your chair person. The prospectus will be graded on:

- **Writing style (20)**: Is your proposal well written? Is it easy to read? Is it written in a formal writing style? Are words spelled correctly, sentences well-formed, etc.
- **Impact (10)**: Do you make a compelling case that your study should be done? You should make sure you explain yourself well enough so that an "intelligent but uneducated" reader can see why you would want to do your study.
- **Literature Review (20)**: Although the amount of literature cited will vary from idea to idea, you should remember that a strong literature review is impressive. A limited, or dated review may cost you points. Does your review have an organizational plan? You are not limited to the methods discussed in class. If you do not use a method suggested in class, however, it is up to you to make it work.
- **Research Design (20)**: Do you present a well thought out plan for conducting your study. This will include methods for selecting subjects, procedures, and all other
aspects of "how" you will carry out your study. If it is not clear how you will do
what you propose you will be in serious trouble. If you don't have a feeling for
how much detail is enough, you should err on the side of "too much."

**APA style (20):** You must follow APA guidelines in your proposal. You will lose
one point per APA style violation. Repeated violations of the same APA rule will
not count against your grade.

**Literature search (5):** You will need to turn in a copy of the reference list you
created in your library literature search. Your computer print out will be fine,
however, if you want to put your reference list on a separate sheet of paper that
will also be acceptable. It is very difficult to say how many sources should be
found on any given topic (we will discuss this in detail in class). However, keep
in mind that if you have a very short list (say under 10) you may lose points.
The prospectus you submit is to be 100% your work.

**Late Work**

Unless you have a written excuse (note from your doctor documenting serious illness,
etc.) I will penalize a late written assignment by subtracting 5 percentage points from its
score for each day late. Unexcused late examinations are not allowed and will be given a
score of 0.

**Class Participation**

I expect attendance and class participation. Much of what we'll do in class involves
discussion of the readings, ideas, etc., and you will need to be present and prepared to
contribute to the class. If you have more than one absence during the semester you will
lose 5 points per missed class period. If you are significantly late you may also lose
points. If you have unusual circumstances that make it difficult to attend class you
should let me know (e.g., serious illness, etc.).

If you are having difficulty in the course, you should meet with me immediately to go
over your class and reading notes and to get direction for supplemental readings.

**Grading Procedure**

- Midterm and Final examinations 2 (100 pts. each) 200
- Prospectus 100
- Electronic prospectus 25
- Statistics assignments 50
- Unannounced quizzes on reading 75
- APA take home 80

There are a total of 530 points available. I will calculate your final percentage using 530
as the highest possible score. The grading scale I will use at the end of the semester is
listed below. No extra credit is possible.

A 94-100
A- 90-93.9 
B+ 87-89.9 
B 84-86.9 
B- 80-83.9 
C+ 77-79.9 
C 74-76.9 
C- 70-73.9 
D+ 67-69.9 
D 64-66.9 
D- 60-63.9 
E <60

Incomplete grades will only be given when serious circumstances (health, family tragedy, etc.) arise after the final drop deadline and persist through the final exam date. You should come and talk to me immediately if you need to take an incomplete. Work schedule, child-care problems, or commuting difficulties are not acceptable reasons for missing exams/classes or receiving an Incomplete.

Calendar (test dates and due dates highlighted)

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Reading Assignment</th>
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</thead>
<tbody>
<tr>
<td>January 9</td>
<td>Introduction-The nature of graduate study; characteristics of a strong graduate program; minimum standards</td>
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</tr>
<tr>
<td>11</td>
<td>Formatting &amp; APA Style – Word Processing</td>
<td>APA Chapters 1-2</td>
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<tr>
<td>16</td>
<td>Formatting &amp; APA Style – Word Processing</td>
<td>APA Chapter 3</td>
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<tr>
<td>18</td>
<td>Formatting &amp; APA Style – Word Processing</td>
<td>APA Chapter 4</td>
</tr>
<tr>
<td>23</td>
<td>Consumers of Research in CD – Research Strategies</td>
<td>Chapter 1 &amp; 2</td>
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<tr>
<td>25</td>
<td>Research Design</td>
<td>Chapter 3</td>
</tr>
<tr>
<td>30</td>
<td>Research Design</td>
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<tr>
<td></td>
<td>Prospectus topic due</td>
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<td></td>
<td>Prospectus literature search due</td>
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<tr>
<td>Feb 1</td>
<td>Research Design</td>
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<tr>
<td>6</td>
<td>The Introduction Section</td>
<td>Chapter 7</td>
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<tr>
<td>8</td>
<td>The Introduction Section</td>
<td>Chapter 7</td>
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<tr>
<td>13</td>
<td>The Method Section</td>
<td>Chapter 8</td>
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<tr>
<td>15</td>
<td>The Method Section</td>
<td>Chapter 8</td>
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<td>20</td>
<td>Holiday-President’s Day</td>
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<td>21</td>
<td>Tuesday-Monday Instruction – The Method Section</td>
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<td>22</td>
<td>The Method Section</td>
<td>Chapter 8</td>
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<td>27</td>
<td>Midterm Exam</td>
<td></td>
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<tr>
<td>Mar 1</td>
<td>Statistical analysis – Using SPSS</td>
<td>Chapter 9</td>
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<tr>
<td>6</td>
<td>Statistical analysis – Using SPSS</td>
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<tr>
<td>8</td>
<td>Statistical analysis – Using SPSS</td>
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</tr>
<tr>
<td>13</td>
<td>The Results Section</td>
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</tbody>
</table>
Prospectus draft due today if you want feedback from me by April 6
ASLP 600: Research Methods (3 credits)

<table>
<thead>
<tr>
<th>Objective</th>
<th>Assessment</th>
<th>Feedback</th>
<th>ASHA CAA Standard*</th>
<th>DOMSE Conceptual Framework*</th>
</tr>
</thead>
</table>
| 1. The student will be able to write a research proposal | 1a. Topic approval.  
1b. Outline approval.  
1c. Reference approval.  
1d. Writing Center review.  
1e. Draft 1 peer review.  
1f. Draft 2 review.  
1g. Final paper grade. | Written comments on items 1a through 1f and a final grade on 1g. | III-F  
III-G  
IV-B | CF-1  
CF-2 |
| 2. The student will understand the theory and foundations of research methodology | 2a. On-line quizzes.  
2b. Interim written exams.  
2c. Final examination. | Class review of items 2a and 2b. Return of item 2c with comment and instructor meeting with student. | III-E  
III-F | CF-1  
CF-2 |

*More detail is available regarding these standards at: [http://www.byu.edu/aslp/](http://www.byu.edu/aslp/)

David O. McKay School of Education (DOMSE) Conceptual Framework (required by the DOMSE):

CF-1 Embrace and apply the moral dimensions of teaching.  
Practicing nurturing pedagogy  
Providing access to knowledge  
Enculturating for democracy

**Ensuring responsible stewardship of the schools**

CF-2 Demonstrate academic excellence.  
CF-3 Model Collaboration.  
CF-4 Act with Social Competence.

Council on Academic Accreditation Standard (CAA):

**Standard III-B** The applicant must demonstrate knowledge of the nature of basic human communication and swallowing process, including their biological, neurological, acoustic, psychological, developmental, linguistic and cultural bases.

**Standard III-C** The applicant must demonstrate knowledge of the nature of speech, language, hearing, and communication disorders and differences and swallowing disorders, including the etiologies, characteristics, anatomical/physiological, acoustic, psychological, developmental, and linguistic and cultural correlates.

**Standard III-D** The applicant must possess knowledge of the principles and methods of prevention, assessment, and intervention for people with communication and swallowing disorders, including consideration of anatomical/physiological, psychological, developmental, and linguistic and cultural correlates of the disorders.

**Standard III-E** The applicant must demonstrate knowledge of standards of ethical conduct.

**Standard III-F** The applicant must demonstrate knowledge of processes used in research and the integration of research principles into evidence-based clinical practice.
Standard III-G  The applicant must demonstrate knowledge of contemporary professional issues.

Standard IV-A  The applicant must complete a curriculum of academic and clinical education that follows an appropriate sequence of learning sufficient to achieve the skills outcomes in Standard IV-G.

Standard IV-B  The applicant must possess skill in oral and written or other forms of communication sufficient for entry into professional practice.