

Andrews University

SPPA-534, 634 & 635 Research Project I, II & III

Course Description

Prepares students for research and experimental design, critical review of current literature, and analysis of research data in preparation for oral and written research presentation in speech-language pathology.

Course Credit

1-4 credits

Course Pre-requisites

Bachelor's Degree in Communication Disorders or the equivalent
SPPA 574 – Research Methods in Speech-Language Pathology

Location

Bell Hall (Room 183)

Schedule

Arranged

Project Advisor

Arranged

Optional Materials

Understanding Research and Evidence-Based Practice in Communication Disorders: A Primer for Students and Practitioners

William O. Haynes, Carole E. Johnson
Boston MA: Pearson (2009)

Evaluating Research in Communicative Disorders, 7/E

Nicholas Schiavetti, Dale Evan Metz, Robert F. Orlikoff,
Boston, MA: Pearson, (2014)

American Psychological Association. (2010). *Publication manual of the American Psychological Association* (6th ed. 4th printing).
Washington DC: American Psychological Association.

Andrews University Standard for Written Work

<http://www.andrews.edu/grad/documents/andrews-university-standards-for-written-work-as-of-october-2011.pdf>

Course Objectives

Course Objectives:

- Students will interpret and statistics and statistical methodology
- Students will devise and submit a completed IRB Application in accordance with Andrews University Standards
- Students will demonstrate appropriate ethical conduct for the utilization of human subjects in research if applicable
- Students will demonstrate appropriate and thorough analysis and interpretation of research.
- Students will discriminate, organize, and scrutinize assumptions in an attempt to identify evidence for a conclusion
- Students will creatively applies knowledge and analysis to integrate concepts or construct an overall theory

This course will meet the criteria for the following standards

ASHA Standard	Outcome	Implementation	Evaluation Criteria
IV-A	The applicant must have demonstrated knowledge of the biological sciences, physical sciences, statistics, and the social/behavioral sciences.	Development of research question, literature review and research methodology	80% accuracy
IV-H	The applicant must have demonstrated knowledge of entry level and advanced certifications, licensure, and other relevant professional credentials, as well as local, state, and national regulations and policies relevant to professional practice: <ul style="list-style-type: none">• Andrews University IRB• NIH - Beginning January 1, 2013, applications for approval by the Andrews University Institutional Review Board (IRB) will require the inclusion of certificates of completion for the National Institutes of Health Online Training Tutorial, http://phrp.nihtraining.com/, for all principal and co-investigators listed on the IRB application.	Completion of IRB application, NIH training certification, through online tutorial	80% accuracy

IV-C	The applicant must have demonstrated knowledge of communication and swallowing disorders and differences, including the appropriate etiologies, characteristics, anatomical/physiological, acoustic, psychological, developmental and linguistic and cultural correlates in communication disorders.	Article Review Research	
IV-E	Std. IV-E: The applicant must have demonstrated knowledge of standards of ethical conduct.	Demonstrated knowledge through methodology and procedures for completion of research	
IV - F	The applicant must have demonstrated knowledge of processes used in research and of the integration of research principles into evidence based clinical practice.	Demonstrated while progressing through the project.	
V-A	Demonstrate skills in oral and written or other forms of communication sufficient for entry into professional practice.	Demonstrated while progressing through the project.	

Teaching Strategies

- Article reviews
- Research
- Independent learning exercises
- Consultation with Research project advisor and research project committee

Course Content

At the completion of this course students will be knowledgeable about the following:

- Planning feasible research studies
- Reviewing the literature
- Components of research articles including but not limited to: overview
 - Introduction section
 - Review of literature section
 - 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 – NIH Certification

- APA style
- Utilization of SPSS or other appropriate data collection systems.
- Andrews University Format for Written Work
- Statistics
 - Basic notions
 - Statistical methods commonly used in ASLP research
 - Identifying differences
 - Identifying relationships
 - Non-parametric statistics in ASLP research & clinical work
 - Other statistical methods in ASLP research
 - Characteristics of good data analysis

Course Requirements and Assignments

Research Project Option

Each graduate student has the option to complete a Research Project. All students pursuing this option will be encouraged to complete a scholarly activity of sufficient quality for professional presentation and/or publication. A research project is intended to familiarize a student with research methodology, peer review article development and submission, and presentation. The project will take approximately three semesters to complete. For this reason, students will progressively register for research project I, II, and III. Students who select the research project option must take the following steps:

- Determine who they would like their research advisor to be.
- Discuss their intentions with the program director or academic advisor (by January of their first year of graduate coursework or the senior year for BS/MS 5-year students).
- Schedule an appointment with the identified research project advisor.
- Obtain written consent noting that the identified faculty member is willing to serve as advisor (consent documents are available on the program webpage).

Research Project Advisor and Chosen Committee Members

- The research project committee will consist of an advisor and two other faculty members with knowledge and expertise in the chosen area.
- In consultation with their research project advisor, the student will determine the two other committee members.
- A faculty member's decision to serve a committee will be based on availability and workload.
- This project decision and advising team process must be completed by the end of the graduate student's second semester.
- The student's final document must be in the form of a peer reviewed article.
- A presentation of the research project must also be conducted
- Project must be completed, presented, corrected and submitted at least three weeks before graduation.

Course Changes and Assignments

- **Changes:** For the purpose of an enhanced learning experience for the students some assignments, quizzes, tests and projects may be changed or altered at the discretion of the

instructor. Likewise, the class schedule is tentative and subject to change.

- **All assignments are due at the beginning of class.** After that time a daily deduction of 5% will be applied to the final of the assignment. After 3 days (72 hours) the assignment will no longer be accepted.

Schedule/Course Outline

As determined by research project advisor and committee

Attendance Policy

Regular attendance at all research project meetings and consultations are required. At least 24 hours' notice is required for all meetings that will be missed. Meetings must be rescheduled and only valid reason such as a medical illness or emergency will be accepted as a valid excuse.

Whenever the number of absences exceeds 20% (10% for graduate classes) of the total course appointments, the teacher may give a failing grade. Merely being absent from campus does not exempt the student from this policy. Absences recorded because of late registration, suspension, and early/late vacation leaves are not excused. The class work missed may be made up only if the teacher allows. Three tardies are equal to one absence.

Academic Honesty

Honesty in all academic matters is a vital component of personal integrity. Breaches in academic integrity principles are taken seriously. Acts of academic dishonesty as described in the University *Bulletin* are subject to incremental disciplinary penalties with redemptive intent. Such acts are tracked in the office of the Vice President for Academic Administration.

Disability Accommodation

If you qualify for special assistance under the American Disabilities Act, please contact the Student Success office at Nethery Hall 100 or disabilities@andrews.edu.

Emergency Protocols

Andrews University takes the safety of its student seriously. Signs identifying emergency protocol are posted throughout buildings. Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting that specific location. It is important that you follow these instructions and stay with your instructor during any evacuation or sheltering emergency.

Assessment and Grading Scale

A	94.0 – 100.0%
A-	90.0 – 93.99%
B+	87.5 – 89.99%

B	83.5 – 87.49%
B-	80.0 – 83.49%
C+	77.5 – 79.99%
C	73.5 – 77.49%
C-	70.0 – 73.49%
D	65.0 – 69.99%
F	Below 65%

Specific to Part III

The final grade for Part III of the research project will not be submitted until the student presents their project and makes all final corrections to their research article/document.

**Department of Speech-Language Pathology and Audiology
Andrews University**

ADVISOR & COMMITTEE MEMBER SELECTION

Graduate Research Project

Student Name:

Student Number:

**THIS FORM IS TO BE SUBMITTED BY THE STUDENT TO THE SPLAD OFFICE BY JANUARY 31
OF FIRST YEAR IN THE PROGRAM OR THE SENIOR YEAR FOR BS/MS 5-YEAR STUDENTS**

Action: New Form Change of Advisor Change of Research
Project Topic

Attach a one-page outline of the proposed research project.

Research Project Topic:

Date Submitted to SPLAD:

Advisor (Please Print):

Advisor Signature:

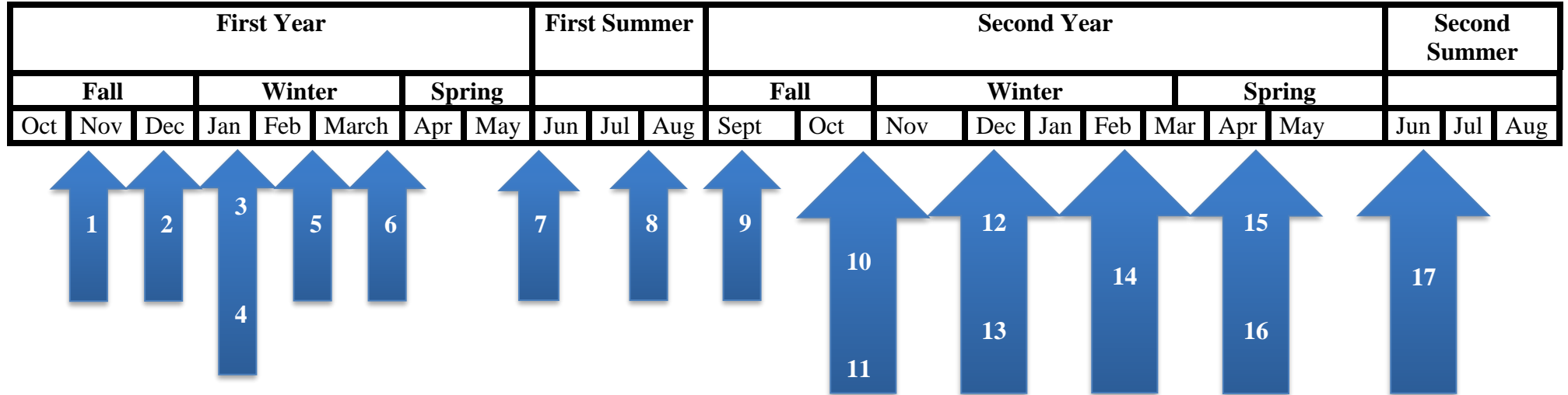
Committee Member & Department:

Committee Member & Department:

Student's Signature:

Date

EXAMPLE OF PROJECT TIMELINE



First Year

1. Select Masters **Research Project** Chairperson and think about topic
2. Select Masters **Research Project** Committee Members
3. First draft of Masters **Research Project Proposal** to your chair
4. Final draft of Masters **Research Project Proposal** to your chair and committee members
5. Submit IRB application
6. Complete research late spring, summer and early fall of the second year if needed (e.g., conduct the study, run analyses)

First Summer

7. Write **first draft** of Masters **Research Project manuscript**
8. **Full draft** of Masters **Research Project manuscript** to your Chair

Second Year

9. Revise **Research Project manuscript** to incorporate your **Chairperson's comments**. Then confirm with chair that thesis is ready to send to rest of the committee. Send it to rest of committee
10. Revise **Research Project manuscript** to incorporate all of the **committee's comments**.

11. Send **revised (near final) draft** of Masters **Research Project manuscript** to all committee members
12. Receive feedback from committee on (near final) draft. Committee will let you know at this point if the thesis is close enough to set a defense date (need all three members' in agreement).
13. Find a specific **Defense date** and time that works for everyone on committee
14. Re-work to incorporate remaining committee feedback
15. Distribute **final version** to committee
16. **Defend Masters Research Project**

Second Summer

17. Submit **Research Project manuscript to a peer-reviewed journal publication (OPTIONAL)**