

THE OHIO STATE UNIVERSITY  
SCHOOL OF HEALTH AND REHABILITATION SCIENCES  
Health and Rehabilitation Sciences PhD Program

**HRS 8998**

COURSE TITLE:	Research Practicum
CREDIT HOURS:	1, Repeatable to 5
CLASS SCHEDULE:	3 hours per credit per week in faculty research
INSTRUCTOR:	SHRS P Faculty

**PURPOSE OF THE COURSE:**

This course is designed for SHRS PhD students to gain practical, advanced skills in allied health research through structured research experiences. PhD students will register for this course prior to completing their candidacy examination. They may also register for this course in any case where the research practicum is designed to expose the student to the research program of a potential PhD advisor or to develop new research skills. Once a PhD advisor is determined and/or the 18-credit limit is reached, students should register for AM999 with the research advisor.

This course is also open to SHRS DPT and MOT students who are completing research practica either as part of a combined professional / PhD degree program (e.g., DPT/PhD) or who are completing a research specialization during their professional graduate training.

**OBJECTIVES**

Upon satisfactory completion of this course the student will demonstrate progress in one or more of the following objectives:

1. Identify the role of critical reading of scientific literature in the development of a research study.
2. Synthesize from the research experience the factors that ensure that research is successful and evaluate whether these factors were met during the research project in which the student was involved.
3. Perform standard research procedures including keeping a notebook and reading relevant scientific literature.
4. Critically analyze scientific literature and apply the findings to research project.
5. Conduct data analysis, management and interpretation as it applies to the research project and focus of the research program.
6. Observe and provide a detailed explanation of advanced, highly technical procedures employed in the research.
7. Given a research question, identify appropriate statistical tests and interpret their results.
8. Understand and apply legal and ethical research conduct standards.

9. Formulate decision-making guidelines which ensure the quality, accuracy and progression of the research project in which the student is involved.
10. Develop skills for oral, visual, and written communication of research findings.

#### COURSE FORMAT

Students will confer with potential advisers to select a research practicum placement. Advisers will accept students on the basis of potential match, suitability of the objectives and potential for collaborative research. Students are expected to work in the research program 3 hours per week per credit. A learning contract developed will broadly specify the expected activities and criteria for satisfactory completion. Students will be given the opportunity to participate in and/or observe actual research techniques and data collection/analysis. Certifications, employee health screenings, and other such activities may be required for this type of participation according to University rules. Ownership of any data collected will normally rest with the University and Faculty Supervisor.

The learning contract shall specify the expected standards of data management and other issues in the responsible conduct of research as required for the research program. It is the responsibility of the faculty supervisor to assure that such expectations are communicated and that the student is properly trained and authorized for participation in any such research.

#### EVALUATION OF STUDENT PERFORMANCE

1. This course is graded S/U (satisfactory/unsatisfactory) by the faculty supervisor..
2. Active participation is required. Attendance is required but not sufficient. The student must actively seek to learn and satisfy the learning contract.
3. Failure to succeed in performance of an experiment shall not in and of itself be grounds for failure; experiments do not always work, and not all students have the skills required for every experiment. If in the judgment of the faculty supervisor, however, a distinct lack of effort or carelessness from the student falls into the category of a lack of active participation in the experience, and that lack of active participation caused the failure of an experiment that should have succeeded, then this may certainly factor into a judgment to grade the student with a U.

#### **Miscellaneous:**

- Disabilities: If you require accommodation for a disability documented through the Office of Disability Services (292-3307), you must notify your faculty supervisor during the first week of classes or within 1 week of learning of the disability.
- Students are referred to the policies on academic misconduct <http://oaa.osu.edu/coam.html> and the code of student conduct ([http://studentaffairs.osu.edu/resource\\_csc.asp](http://studentaffairs.osu.edu/resource_csc.asp))

- If you have questions about the integrity or responsible conduct of the research conducted under this course, you are advised to study the website maintained by the OSU Office of Research Compliance and follow procedures outlined there: <http://orc.osu.edu/>

#### SHRS WEEKLY SCHEDULE

Listed below is a generic schedule. Each research program will develop a specific schedule for each student each quarter according to the on-going research in the research program at the time the student is rotating. This may be developed during the first week of the quarter, and the student and faculty supervisor are expected exercise reasonable flexibility as exigencies arise during the quarter.

DATE	TOPIC
Week 1	Introduction to research program procedures
Week 2	Critical Review of Related Literature
Week 3	Critical Review of Related Literature Observation of Specific Research Program Techniques
Week 4	Data Collection and Analysis for Specified Project
Week 5	Data Collection and Analysis for Specified Project
Week 6	Data Collection and Analysis for Specified Project
Week 7	Participation in Research Program Journal Club
Week 8	Data Collection and Analysis for Specified Project
Week 9	Data Collection and Analysis for Specified Project
Week 10	Presentation of Findings at Research Program Journal Club or Grand Rounds

SHRSLE LEARNING CONTRACT:

The faculty supervisor and student will work together to develop a learning contract for each quarter of 885.01. The following SHRSle may be used, or the faculty and student may develop their own. In any case, it must be clear to both parties what is expected, how much time is required, and what outcomes will be expected.

I, *Student Name*, have registered for 3 credits of AM885.01 with *Faculty Supervisor Name*. I understand that I must commit approximately 9 hours per week to this effort for 10 weeks. My expected schedule will be 4 hours each Monday and Wednesday from 12:30 – 4:30. I also expect to attend three hours of training on research safety on (specific date) and two 2-hour journal clubs during weeks 7 and 10. I will leave all data and products of data analysis in the laboratory. I will be oriented to lab procedures for data management and lab policies for authorship during the first week of my rotation. I understand that I must keep complete and accurate records of all my activities such that other lab personnel could replicate my work if required. I understand that the research findings and other data from the lab are the intellectual property of the Ohio State University and the faculty supervisor. I will not communicate in any form (written, oral, visual) anything about the research project to others outside the lab without the express knowledge and authorization of the faculty supervisor in the lab. I understand that I will be required to submit a written report in the form of a white paper to my faculty supervisor at the end of this quarter. This will include an annotated bibliography of assigned readings, and a summary and analysis of findings I helped create during my research practicum. I will give an oral presentation of the results of investigations I assisted with to the lab group, including a PowerPoint presentation of about 15 minutes in length.

\_\_\_\_\_ (signature) \_\_\_\_\_ (date)  
Student name

\_\_\_\_\_ (signature) \_\_\_\_\_ (date)  
Faculty supervisor

A copy of this contract will be kept by the student and by the faculty supervisor.