



**LEWIS & CLARK COLLEGE
GRADUATE SCHOOL OF EDUCATION AND COUNSELING**

**AT535-11: RESEARCH METHODS AND EVALUATION (3 Credits)
Summer 2019**

When: Mondays, 5/6/19-8/12/19 5:30pm-08:45pm

Where: Rogers 220

Instructor: Gaelan Walker, MS

Office Hours: By appointment

E-Mail: gaelan@lclark.edu

CATALOG DESCRIPTION

This course includes types of research; basic statistics; research-report development; research implementation; program evaluation; needs assessment; publication of research information; and ethical and legal considerations.

Course Description:

This course includes learning about different research methodologies, critiquing research reports, writing in a scholarly manner, ethical considerations in research, and information on how to conduct projects with varying research questions and hypotheses.

COURSE OBJECTIVES

Course Goals and Objectives:

Students should be able to demonstrate a general understanding of the following aspects of research:

- Different paradigms for conducting research
- The steps involved in developing a research project
- Research questions and hypotheses
- Ethical issues of conducting research and utilizing research findings
- Quantitative and qualitative research designs as well as single-case designs, action and participatory research
- The use of technology and statistical methods in conducting research and program evaluation
- Issues of validity and reliability
- The impact of culture as it relates to research studies and findings
- The use of research to improve counseling effectiveness, opportunities to conduct research as an art therapist and challenges of using research in the art therapy profession

- Critiquing published research articles
- Designing a proposal for a research project

CAAHEP STUDENT LEARNING OUTCOMES

| Learning Outcome | Description |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SLO- D | Select culturally and developmentally appropriate assessment and evaluation methods and administer and interpret results to identify challenges, strengths, resilience, and resources for Art Therapy treatment planning. |

CAAHEP CONTENT AREAS

| Content Area | Description | Mastery Level | Assessment |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------|
| m.K.1 | Recognize foundational purposes, methods, and ethical, legal, and cultural considerations of research | Introduce | Conceptual Articles Paper, Research Articles Paper, Annotated Bibliography, In Class Assignments, Group Project |
| m.K.2 | Define research methodologies (quantitative, qualitative, mixed methods) & research design formats used in the field | Introduce | Conceptual Articles Paper, Research Articles Paper, Annotated Bibliography, In Class Assignments, Group Project |
| m.K.3 | Describe art-based research methodology as it relates to art therapy | Mastery | Research Articles Paper, In Class Assignments, Group Project |
| m.K.4 | Understand concepts of validity and reliability and applications to selection and application to assessments and tests | Mastery | Statistics Lab Discussion |
| m.S.2 | Perform basic steps required to design and conduct a research study | Introduce | Statistics Lab Assignments |
| m.S.3 | Demonstrate basic statistical concepts such as scales of measurement, measures of central tendency, variability, distribution of data, and relationships among data as applied in research studies | Introduce | Statistics Lab Assignments |

REQUIRED TEXTS AND READINGS:

Required Books:

Patten, M. L., and Newhart, M. (2018). *Understanding research methods: An overview of the essentials (10th ed.)*. New York, NY: Routledge.

American Psychological Association (2009). *Publication Manual of the American Psychological Association (6th ed.)*. Washington, DC: Author. Tutorial:
<http://www.apastyle.org/learn/tutorials/basics-tutorial.aspx>

Optional texts:

Creswell, J. W. (2014). *Research design: Qualitative, quantitative, and mixed methods approaches (4th Ed.)*. Thousand Oaks, CA: Sage. (available through online book store or Amazon as an e-book)

Kapitan, L. (2017). *Introduction to art therapy research (2nd ed.)*. New York, NY: Routledge.

Required Articles:

Betts, D. J. (2005). Systematic analysis of art therapy assessment and rating instrument literature. *Unpublished Dissertation, Florida State University*.
<http://diginole.lib.fsu.edu/islandora/object/fsu:175923/datastream/PDF/view>

Deaver, S. P. (2011). Research ethics: Institutional Review Board oversight of art therapy research. *Art Therapy, 28*(4), 171-176.

Kaiser, D. (2017). What do racism and oppression have to do with scholarship, research, and practice in art therapy? *Art Therapy, 34*(4), 154-156.

Kaiser, D., & Deaver, S. (2013). Establishing a research agenda for art therapy: A Delphi study. *Art Therapy, 30*(3), 114-121.

Slayton, S., D'Archer, J., & Kaplan, F. (2010). Outcome studies on the efficacy of art therapy: A review of findings. *Art Therapy, 27*(3), 108-118.
<http://dx.doi.org/10.1080/07421656.2010.10129660>

Uttley, L., Scope, A., Stevenson, M., Rawdin, A., Buck, E. T., Sutton, A., ... & Wood, C. (2015). Systematic review and economic modelling of the clinical effectiveness and cost-effectiveness of art therapy among people with non-psychotic mental health disorders. *Health Technology Assessment, 19*(18). Retrieved from
<http://www.ncbi.nlm.nih.gov/books/NBK279634/>

NONDISCRIMINATION STATEMENT

Lewis & Clark College adheres to a nondiscriminatory policy with respect to employment, enrollment, and program. Lewis & Clark does not discriminate on the basis of actual or perceived race, color, sex, religion, age, marital status, national origin, the presence of any physical or sensory disability, veteran status, sexual orientation, gender identity, or gender expression and has a firm commitment to promote the letter and spirit of all equal opportunity and civil rights laws, including Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, Title VII of the Civil Rights Act of 1964, the Age Discrimination Act, the Americans with Disabilities Act of 1990, and their implementing regulations.

DISABILITY SERVICES STATEMENT

If you have a disability that may impact your academic performance, you may request accommodations by submitting documentation to the Student Support Services Office in the Albany Quadrangle (503-768-7192). After you have submitted documentation and filled out paperwork there for the current semester requesting accommodations, staff in that office will notify me of the accommodations for which you are eligible.

TEACHING METHODS

A variety of teaching methods will be used during this course in order to achieve the above objectives. The primary methods of classroom instruction will be lecture/discussion, videos. The out of class learning will consist of readings, maintaining a Methodology Log, and an online CITI research ethics training.

CPSY DEPARTMENTAL ATTENDANCE POLICY

Class attendance is expected and required. Any missed class time will be made up by completing extra assignments designed by the instructor. Missing more than ten percent of class time may result in failure to complete the class. This would be 4.5 hours of a 45 hour class (3 credits), 3.0 hours for a 30 hour class (2 credits) or 1.5 hours for a 15 hour class (1 credit.) In case of extreme hardship and also at the discretion of the instructor, a grade of incomplete may be given for an assignment or the entire course. In such cases, the work to be submitted in order to remove the incomplete must be documented appropriately and stated deadlines met. Students are expected to be on time to class and tardiness may be seen as an absence that requires make-up work.

DISCLOSURE OF PERSONAL INFORMATION

Each student should decide for her/him/themself what information to disclose. Students are advised to be prudent when making self-disclosures. The program cannot guarantee confidentiality of student disclosures given the group environment, although personal comments should be considered private and confidential – and remain only in the classroom – unless an exception to confidentiality applies.

CELL PHONES

Cell phones must be silenced and text messaging is not allowed during class time. If there is an emergency you may exit the class to use your cell.

CLASS PREPARATION

You must complete all assigned readings and complete any papers prior to class, turning them in on the day they are due.

EVALUATION AND GRADING

Because of the skill development nature of this course, it is required that students complete ALL assignments to pass this class.

| Assignment | Point Value | |
|------------------------------------------------|-------------|-----|
| Class Discussion and rStudio Lab Participation | 10 | |
| Group Discussion Facilitation | 10 | |
| rStudio Project Poster | 10 | |
| Research Articles Paper | 30 | |
| Methodology Log | 40 | |
| Total Points in the Course: | | 100 |

FINAL GRADING

| | | |
|-------------|-------------|-------------|
| A = 94-100% | B = 83-87% | C = 73-77% |
| A- = 90-93% | B- = 80-82% | C- = 70-72% |
| B+ = 88-89% | C+ = 78-79% | |

NOTE: All assignments must be turned in at the beginning of class (before class starts) on the day they are due. Five points will be deducted for each day an assignment is late.

ASSIGNMENTS

1. **Methodology Log:** It is expected that you maintain a log of dynamic reading of the course texts. In order to develop textual analysis and analytical skills, the methodology log will provide a framework for close-reading and organizing text information. The structure and format of the log will be discussed on the first day of the course.

| Methodology Log | Possible points per entry |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| The log follows standard conventions and must be structured using a standard outline format, i.e., capital roman numerals for main headings, capitalized letters for subheadings, lower case letters after that, and so on. | 1 |
| Core concepts of each paragraph are summarized/rephrased in the student's own words. | 1 |
| The student provides meta-commentary regarding at least two concepts in the text. The meta-statements are highlighted. | 1 |

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| Page number markers are included to support the utility of the log in discussion. | 1 |
| The log entry is printed and in hand at the beginning of class. | 1 |
| Total | 5 |
| Total per all 8 entries | 40 |

2. **Research Articles Paper:** The Research Articles Paper will consist of annotations of three (3) research-based articles related to the student’s thesis/capstone topic. These articles must be found in scholarly, peer-reviewed journals. These research studies may be quantitative, qualitative, mixed methods, or art-based. The annotations must be in APA style, and contain both a summary and an evaluation of the article. In the summary, describe the context and rationale of the study, the methodology, the results, and limitations. In the evaluation, discuss the usefulness and reliability of the article, and its relevance to your topic. **Due Week 12.**

| | Description | Possible points |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| | The first paragraph of each annotation includes an objective and concise review of the article, including its literature review, methods, results, and limitations. | 10 |
| | The second paragraph of each annotation levels a critique of the most important information in the article, the underlying assumptions of the author, and the logic of the inferences/conclusions made by the authors. Writing strengths and weaknesses are considered. | 10 |
| | Paper is written in APA meeting writing requirements | 10 |
| | Total | 30 |

3. **Group Discussion Facilitation:** During the first week of the course, students will be assigned one of eight art therapy research paradigms: Phenomenological, Heuristic, Participatory Action, Art Therapy Assessment (correlational), Experimental & Quasi-Experimental research, Treatment Outcome Research, Case Study, Meta-analysis. Students in each group will read the required text for this research paradigm and find and read one article (each) from that paradigm. Each student in the group will prepare

an annotation of their article to use in discussion. Together, the students in that group will facilitate class discussion related to that paradigm, including the contributions that the paradigm makes to art therapy literature and its limitations.

| | Description | Possible points |
|-------|----------------------------------------------------------------------------------------------------------------------|------------------------|
| m.K.2 | Define research methodologies (quantitative, qualitative, mixed methods) & research design formats used in the field | 3 |
| | Coming to class prepared (having read the text and prepared annotation of the article). | 3 |
| | Students collaboratively support group discussions with attention and energy. | 4 |
| | Total | 10 |

4. **Class Participation and Discussion:** It is expected that you complete all readings and be prepared to discuss content in class.

| Class participation | Possible points |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Attending all classes and being on time. Giving attention to the instructor and/or other students when they are making a presentation. | 1 |
| Demonstrating ability to recognize and use subtle non-verbal communication cues to assess your impact on your peers and participate in class. Demonstrating ability to be open about discussing the impact of your comments on your peers. | 1 |
| Coming to class prepared (having read the assignment for the day) Engaging in group discussions with attention and energy. Asking questions of the instructor and/or other students regarding the material examined in that class. | 1 |
| Contributing to in-class discussion based on the topics of discusses and the readings assigned. Contributions may include how you feel about the material but merely articulating your feelings is not sufficient. You are expected to put those feelings in context of your thoughts and analysis of the material. | 1 |
| Providing examples to support or challenge the issues talked about in class. Making comments or giving observations about topics in the course, | 1 |

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| especially those that tie in the classroom material to "real world" problems, or try to integrate the content of the course. | |
| Dealing with other students and/or the instructor in a respectful fashion. Listening actively. Students will be asked questions related to the course's readings randomly in class by other students and by the instructor. Your participation in small group discussions is also required. | 1 |
| Total | 6 |

Studio Lab participation: Instruction and guidance will be provided to students in utilizing the open-source statistical software r and rStudio. Students will be expected to complete assigned tutorials and engage in self-directed exploration of rStudio functions once tutorials are completed.

| | Description | Possible points |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| | Utilizing rStudio lab time effectively and consistently. Students work in an independent and engaged manner, utilizing open-source video tutorials to develop their understanding of rStudio at their own pace. | 1 |
| | Successful independent data analysis using datasets provided by the instructor | 1 |
| m.S.3 | Demonstrate basic statistical concepts such as scales of measurement, measures of central tendency, variability, distribution of data, and relationships among data. | 2 |
| | Total | 4 |

5. rStudio Project and Poster presentation: Students will implement the skills developed during rStudio lab time by developing and presenting a simulated art therapy research study. Students will develop a research question, identify a population, and design study variables. Students will be provided with a simulated dataset by the instructor based on their design. Students will then analyze the data using rStudio during lab time to identify measures of central tendency, distribution of data, and relationships among data. Students will present these results via a poster to the class.

| | Description | Possible points |
|-------|------------------------------------------------------------------------------------------------------------------------|-----------------|
| m.K.2 | Define research methodologies (quantitative, qualitative, mixed methods) & research design formats used in the field | 2 |
| m.K.3 | Describe art-based research methodology as it relates to art therapy | 2 |
| m.K.4 | Understand concepts of validity and reliability and applications to selection and application to assessments and tests | 2 |

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|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| m.S.2 | Perform basic steps required to design and conduct a research study | 2 |
| m.S.3 | Demonstrate basic statistical concepts such as scales of measurement, measures of central tendency, variability, distribution of data, and relationships among data as applied in research studies | 2 |
| | Total | 10 |

| Class # | Date | Topics | Readings and Assignments Due |
|----------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | 5/6 | <p>Introduction to Class</p> <p>Pedagogy discussion</p> <p>Review Syllabus</p> <p>Style conventions for Methodology Log</p> <p>Approaching the Literature</p> | <p>In class: Student sign-up for Discussion Facilitation</p> <p>Lab: Group Topic Literature Search</p> |
| 2 | 5/13 | <p>Epistemology</p> <p>Qualitative and Quantitative Research</p> <p>Trends in art therapy research</p> <p>Development of art therapy research questions</p> | <p>Read: Patten Part 1, 1-3, pp. 3-10</p> <p>Due, Printed: Methodology Log 1 – Knowledge and Research</p> <p>Recommended: Kaiser, D., & Deaver, S. (2013). Establishing a research agenda for art therapy: A Delphi study. <i>Art Therapy</i>, 30(3), 114-121.</p> |
| 3 | 5/20 | <p>Qualitative Research</p> <p>Qualitative validity</p> <p>rStudio – getting started</p> | <p>Read: Patten Part 1, Topic 7-8, pp. 22-27</p> <p>Read: Patten Part 6, 46-47, pp. 161-166.</p> <p>Read: Patten Part 5, topic 45, pp.156-158</p> <p>Due, Printed: Methodology Log 2 – Qualitative Research</p> <p>Group 1 Discussion: Phenomenological Research</p> <p>Note: no class on 5/27</p> |
| 4 | 6/3 | <p>Heuristic Research</p> <p>Datasets</p> <p>rStudio</p> <p>Basic Operations and variables</p> | <p>Read: Kapitan, 2017 (on moodle) pp. 192-210</p> <p>Due, Printed: Methodology Log 3 – Heuristic Research</p> <p>Group 2 Discussion: Heuristic Research</p> |
| 5 | 6/10 | <p>Research Ethics and Social Justice</p> <p>Participatory Action Research</p> <p>rStudio –</p> | <p>Read: Kapitan, 2017 (on moodle) pp.162-180</p> <p>Due, Printed: Methodology Log 4 – Anti-Oppressive Research</p> |

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| | | Descriptive Statistics | Group 3 Discussion: Participatory Action Research |
| 6 | 6/17 | Quantitative Research Measurement, instruments, simple statistics rStudio – Standard Deviation | Read: Patten Part 3, topics 20-24, pp. 71-86. Due, Printed: Methodology Log 5 – Quantitative Research Recommended reading: Deaver, S. P. (2011). Research ethics: Institutional Review Board oversight of art therapy research. <i>Art Therapy</i> , 28(4), 171-176. Kaiser, D. (2017). What do racism and oppression have to do with scholarship, research, and practice in art therapy? <i>Art Therapy</i> , 34(4), 154-156. |
| 7 | 6/24 | Quantitative Methods Continued Sampling methods Frequency distributions rStudio – Correlation Coefficient | Read: Patten Part 4, 25, 26, 29-31, pp. 87-94, 100-109. Due, Printed: Methodology Log 6 –Sampling Group 4 Discussion: Art Therapy Assessment Research |
| 8 | 7/1 | Quantitative Validity Art Therapy Assessment Research rStudio Chi-square | Read: Patten Part 5, pp. 121-149 Due, Printed: Methodology Log 7 - Validity Recommended read: Betts, D. J. (2005). Systematic analysis of art therapy assessment and rating instrument literature. <i>Unpublished Dissertation, Florida State University</i> . http://diginole.lib.fsu.edu/islandora/object/fsu:175923/datastream/PDF/view |
| 9 | 7/8 | Experimental methods and randomization rStudio – t scores and normal probabilities | Read: Patten Part 7, pp.181-200. Due, Printed: Methodology Log 8 - Experimental Research Group 5 Discussion: Experimental & quasi experimental research |
| 10 | 7/15 | Applied Research and program evaluation | Read: Slayton, S., D'Archer, J., & Kaplan, F. (2010). Outcome studies on the efficacy of art therapy: A review of findings. <i>Art Therapy</i> , 27(3), 108-118. http://dx.doi.org/10.1080/07421656.2010.10129660 |

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| | | rStudio – ANOVA | <p>Uttley, L., Scope, A., Stevenson, M., Rawdin, A., Buck, E. T., Sutton, A. & Wood, C. (2015). Systematic review and economic modelling of the clinical effectiveness and cost-effectiveness of art therapy among people with non-psychotic mental health disorders. <i>Health Technology Assessment</i>, 19(18). Retrieved from http://www.ncbi.nlm.nih.gov/books/NBK279634/</p> <p>Group 6 Discussion: Treatment Outcome Research</p> |
| 11 | 7/22 | Case study and multiple case study rStudio – designing a dataset | <p>Read: Two Capstone manuscripts completed by art therapy program alumni (on moodle)</p> <p>Group 7 Discussion: Case Study</p> |
| 12 | 7/29 | Meta-Analysis rStudio – presenting data | <p>Due: Research Articles Paper</p> <p>Read: Patten Part 9, pp. 259-279</p> <p>Group 8: Discussion: Meta-analysis</p> |
| 13 | 8/5 | Bring it together: Review and article analysis rStudio – presenting data | In class: Create rStudio Posters |
| 14 | 8/12 | Presentation of data Closure discussion | Due: Simulated Project Poster |