

# LEARNING SCIENCE (LRNS)

## LRNS 60199 THESIS I 2-6 Credit Hours

(Repeatable for credit) Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 6-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## LRNS 60299 THESIS II 2 Credit Hours

(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** LRNS 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## LRNS 65525 INFORMAL LEARNING 3 Credit Hours

(Slashed with LRNS 75525) Learning opportunities across the lifespan often occur outside of formal settings. Informal Learning explores learning in the wild, or learning without the use of formal techniques, curriculum, or assessments. The course will focus on helping students develop critical skills needed to read and synthesize basic research, as it is an important tool for lifelong learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## LRNS 66510 INTRODUCTION TO R FOR EDUCATIONAL AND LEARNING SCIENCES 3 Credit Hours

(Slashed with LRNS 76510) An introduction to R for statistical computing for graduate students in educational, learning, cognitive, language and human behavioral sciences. Students will learn skills necessary to create graphical figures and tables and manipulate data structures and variables in executable code in R, R Studio and R markdown. Students will learn how to read, understand and synthesize code to develop readable data/results reporting formats on data repositories.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## LRNS 66511 STATISTICAL PROGRAMMING IN R FOR LEARNING SCIENCE 3 Credit Hours

(Slashed with LRNS 76511) This is not a statistics course, but a programming course for statistics in R. The purpose of this course is to teach syntax for common analyses used in R among psychological and social sciences researchers. Theory, as related to statistics, will only be covered in reference to modeling constraints for each analysis. The purpose of this course will be to introduce students to basic syntax and data consideration for statistical analyses commonly used in R – such as t-tests, ANOVA, Regression, MANOVA, Power Analysis, and Mixed Random Effects Models.

**Prerequisite:** LRNS 66510 and RMS 68713 and RMS 68726; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## LRNS 75525 INFORMAL LEARNING 3 Credit Hours

(Slashed with LRNS 66511) Learning opportunities across the lifespan often occur outside of formal settings. Informal Learning explores learning in the wild, or learning without the use of formal techniques, curriculum, or assessments. The course will focus on helping students develop critical skills needed to read and synthesize basic research, as it is an important tool for lifelong learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## LRNS 76510 INTRODUCTION TO R FOR EDUCATIONAL AND LEARNING SCIENCES 3 Credit Hours

(Slashed with LRNS 66510) An introduction to R for statistical computing for graduate students in educational, learning, cognitive, language and human behavioral sciences. Students will learn skills necessary to create graphical figures and tables and manipulate data structures and variables in executable code in R, R Studio and R markdown. Students will learn how to read, understand and synthesize code to develop readable data/results reporting formats on data repositories.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## LRNS 76511 STATISTICAL PROGRAMMING IN R FOR LEARNING SCIENCE 3 Credit Hours

(Slashed with LRNS 66511) This is not a statistics course, but a programming course for statistics in R. The purpose of this course is to teach syntax for common analyses used in R among psychological and social sciences researchers. Theory, as related to statistics, will only be covered in reference to modeling constraints for each analysis. The purpose of this course will be to introduce students to basic syntax and data consideration for statistical analyses commonly used in R – such as t-tests, ANOVA, Regression, MANOVA, Power Analysis, and Mixed Random Effects Models.

**Prerequisite:** LRNS 76510 and RMS 78713 and RMS 78726; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## LRNS 80199 DISSERTATION I 15 Credit Hours

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## LRNS 80299 DISSERTATION II 15 Credit Hours

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** LRNS 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LRNS 89096 INDIVIDUAL INVESTIGATION IN LEARNING AND DEVELOPMENT 1-3 Credit Hours**

(Repeatable for credit) Students pursue an individual project on a specific topic in learning and development with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LRNS 89098 RESEARCH IN LEARNING AND DEVELOPMENT 1-6 Credit Hours**

(Repeatable for credit) Students pursue an individual research project on a specific topic in learning and development with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP