**Introduction to Research I (IDS 3913)**

**T-L.E.A.R.N.** ® **Program - Fall 2019**

**Tuesdays, 3:00PM-4:20PM**

**Trevor Colbourn Hall, Room 201**

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| Dr. Kimberly Schneider  Assistant Dean, College of Undergraduate Studies Director, Office of Undergraduate Research  Location: Trevor Colbourn Hall, Suite 205  Office Hours: By appointment | Dr. Mary Tripp  Coordinator, L.E.A.R.N.®  Director, Office of Undergraduate Research  Location: Trevor Colbourn Hall, Suite 205  Office Hours: By appointment |

**Course Description:**

This 1-credit course will introduce T-L.E.A.R.N. students to academic research and prepare them for engagement in undergraduate research as first-year UCF students in Science, Technology, Engineering, and Mathematics (STEM) disciplines.

## **Course Requirements:**

Attendance to scheduled class is mandatory. IDS 3913 is the foundational class of the T-L.E.A.R.N. program. Students have to participate in and pass this course (C or higher) in order to move into Introduction to Research II (IDS 4914) in the spring term, receive the T-L.E.A.R.N. research funding, and continue their participation in the T-L.E.A.R.N. program.

## **Course Objectives:**

## At the end of this course, students will be able to

* Learn how to maximize learning by reflecting on their transition
* Develop an understanding for plans post UCF (academic and professional)
* Explore the definition of research across multiple disciplines
* Learn about research in a wide variety of STEM disciplines
* Highlight the basic expectations and requirements of the undergraduate researcher when conducting research with a faculty mentor or in a professional environment
* Know how to contact and secure a faculty mentor for their LEARN research
* Find information sources and determine the differences between primary and secondary literature
* Find literature related and relevant to your research apprenticeship
* Recognize and develop ideas for a research proposal
* Gain knowledge of the opportunities available to undergraduate researchers throughout their career at UCF

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|  | **Date** | **Topic** |
| Week #1 | August 27 | Introduction to STEM Academic  Research |
| Week #2 | September 3 | Undergraduate Research at UCF  Laboratory Saftey |
| Week #3 | September 10 | What is Academic Research?  Introduction to UCF Learning Tools |
| Week #4 | September 17 | Professional Development Part I: Working with Faculty on Research, and Laboratory Etiquette |
| Week #5 | September 24 | Professional Development Part II: Contacting Faculty, Finding Faculty Mentors and Finding Their Research Literature |
| Week #6 | October 1 | Information Fluency Part I: Dissecting a Research Article and Reading Primary & Secondary Literature |
| Week #7 | October 8 | Academic Research Presentations:  UCF Faculty Highlights |
| Week #8 | October 15 | Information Fluency Part II -  Finding, Using, and Synthesizing Research Literature |
| Week #9 | October 22 | Information Fluency Part III – Peer Review, Manuscripts & Grants, OUR Resources |
| Week #10 | October 29 | Information Fluency Part IV- Scientific Writing, Plagiarism, APA formatting |
| Week #11 | November 5 | Professional Development Part III: Resumes Re-Reviewed, Cover Letters, and Personal Statements |
| Week #12 | November 12 | Preparing Today for Tomorrow:  Summer Programs, UCF Programs, Internships, and Graduate School  Regroup on Research Plans for LEARN |
| Week #13 | November 19 | How to be a Good Research Mentee in LEARN and beyond |
| Week #14 | November 26 | Research Skills Part IV: Scientific Process and Proposal Overview |
| Week #15 | December 2-7 | Finals Week – No Classes |