**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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| Director, Office of Undergraduate Research Location: Trevor Colbourn Hall, Room 205A Office Hours: Tuesdays, 9:30-10:30 | Coordinator, L.E.A.R.N.®  Location: Trevor Colbourn Hall, Room 205A  Office Hours: Mondays, 3:00-4:00 |
| Graduate Teaching Assistant, L.E.A.R.N.® Location: Trevor Colbourn Hall, Room 205A Office Hours: Wednesdays 9:30-12:00 and 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. scholarship, 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

* 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
* Synthesize academic literature from a variety of sources
* Recognize and develop ideas for a research proposal
* Gain knowledge of the opportunities available to undergraduate researchers throughout their career at UCF and beyond

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|  | **Date** | **Topic** | **Assignments** |
| Week #1 | August | Syllabus Overview  Introduction to Academic Research | Attendance Required for Academic Engagement Activity |
| Week #2 | September | No Class due to Hurricane |  |
| Week #3 | September | Planning the semester – Events and Workshops  Working with Faculty and Research Etiquette | Class #1: Assets Inventory (*due 9/9/2019)*  Homework (HW) #1: Academic, Service, and Social Events: Semester Plan (*due 9/16/2019)*  HW #2: Module: Starting Research Modules, Parts A, B, & C.  (*due 9/16/2019 by 11:59PM*) |
| Week #4 | September | Contacting Faculty, Finding Faculty Mentors  *Bring your laptops, and work on contacting faculty during class* | HW #3A: Laboratory Safety Module and CITI Training *(due 9/30/2019 by 11:59PM)*  HW #3B: Laboratory Safety Practical (*due 11/11/2019*) |
| Week #5 | September | Reading Research Articles | Class #2: Dissecting a Research Article  HW #4: Library Modules- Parts A, B, & C (*due 10/07/2019 by 11:59PM*) |
| Week #6 | October | Research Literature Analysis Assignment | HW #5: Faculty Research Summary 1  (*due 10/14/2019 by 11:59PM*) |
| Week #7 | October | Synthesizing Research Literature  Using Google Scholar for academic sources | HW #6: Faculty Research Summary 2 (*due 10/21/2019 by 11:59PM*)  HW #7: Mid-term Grade Checks (*due 10/21/2019 by 11:59PM*) |
| Week #8 | October | Attend Your Lab Safety Practical & Work on Securing a Research Placement  *No Scheduled Class this Week!* | HW #8A: Research Synthesis Draft (*due 11/04/2019 by 11:59PM*) |
| Week #9 | October | Transition Regroup and Finding a Faculty Mentor Updates |  |
| Week #10 | October | Finding Research Literature through the library databases  (UCF Librarian Visit) | HW #9: Update on Faculty Mentor (*due 11/11/2019 by 11:59PM*) |
| Week #11 | November | How to be a Good Research Mentee in LEARN and beyond | HW #8B: Research Synthesis Revision (*due 11/25/2019 by 11:59PM*) |
| Week #12 | November | Alumni Panel: Navigating the Research Environment | Class #3: Panel Question(s) |
| Week #13 | November | Preparing Today for Tomorrow: Summer Programs, UCF Programs, Internships, and Graduate School | Class #4: Identify Summer Internship/Research Program  HW #10: Identify Proposal Topic (*due 12/02/2019 by 11:59PM*) |
| Week #14 | November | *Thanksgiving Break – No Class* |  |
| Week #15 | December | Scientific Process and Proposal Overview  Annotated Bibliography Assignment | Final: Proposal Topic Review Sheet  (*due 12/10/2019 by 11:59PM*)  Annotated Bibliography Assignment due in IDS 4914 on January 10, 2020. |
| Finals Week – No classes | December | Winter Break | Ongoing assignment: Annotated Bibliography  Extra credit: Submit LinkedIn Profile & Updated Resume (*due 11/11/2019)* |

\*Slight changes in the schedule might occur. Students will be given advance notice of any changes.

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| **Grade Category** | **Description of the Requirements** | **Due Date and Time** | **Point Value** |
| **Class Attendance/ Participation (20)** | Attendance is required for both the class and research apprenticeship. Full participation in the class is essential. This includes, but is not restricted to, in-class discussions, class activities, field trips, group work etc. *Missing classes without a valid excuse jeopardizes your grade in the course and status in the program.* | N/A | 20 |
| **Class**  **Assignments (10)**  No makeup assignments | #1 Assets Inventory | In class | 2 |
| #2 Dissecting a Research Article | 3 |
| #3 Panel Questions | 3 |
| #4 Identify Summer Position | 2 |
| **Homework Assignments (60)** | #1 Academic, Service, and Social Events: Semester Plan | September | 2 |
| #2 Starting Research Module: (A) List of Potential Faculty   Mentors, (B) Draft an Email, (C) Email Quiz | September | 6 |
| #3A Laboratory Safety Modules (Webcourses) and CITI   Training (Online)  #3B Laboratory Safety Practical (In-Person) | September  November | 8 |
| #4 Library Modules: (A) Recognizing a Research Study,   (B) Moving into Discipline Specific Research, and   (C) Avoiding Plagiarism | October | 8 |
| #5 Research Summary 1 | October | 7 |
| #6 Faculty Research Summary 2 | October | 7 |
| #7 Mid-term Grade Checks | October | 2 |
| #8A Research Synthesis Draft | November | 7 |
| #8B Research Synthesis Revision | November | 5 |
| #9 Update on Faculty Mentor | November | 2 |
| #10 Identify Proposal Topic | December | 6 |
| **Final Exam (15)**  No late assignments will be accepted. | Proposal Topic Review Sheet | December 11:59PM | 10  (Extra Credit: 5) |
| Extra Credit: Submit LinkedIn Profile & Updated Resume | December |

## Total points for course: 100 Grading Scale: 90-100% = A; 80-89% = B; 70-79% = C; 60-69% = D; >60% = F

*(NOTE: a grade of C or higher is necessary to continue in the L.E.A.R.N. program)*

**Email Communication**

All course communication must come from your Knights email account. Your subject line should include IDS 3913, YOUR NAME, SUBJECT OF EMAIL (i.e., IDS 3913, John Doe, Library Modules Issue). The email should address Dr. Tripp and/or Dr. Schneider, or Rachel. Include your message/questions, and signature. If someone has not responded to you within 48 hours, please re-send.

**Ethics Statement**

As reflected in the UCF creed, integrity and scholarship are core values that should guide our conduct and decisions as members of the UCF community. Plagiarism and cheating contradict these values and are very serious academic offenses. Penalties can include a failing grade in an assignment or in the course, or suspension or expulsion from the university. Students are expected to familiarize themselves with and follow the University’s Rules of Conduct (see <http://osc.sdes.ucf.edu/process/roc>).

**Accessibility Statement**

The University of Central Florida is committed to providing reasonable accommodations for all persons with disabilities. This syllabus is available in alternate formats upon request. Students with disabilities who need accommodations in this course must contact the professor at the beginning of the semester to discuss needed accommodations. No accommodations will be provided until the student has met with the professor to request accommodations. Students who need accommodations must be registered with Student Accessibility Services, Ferrell Commons Room 132, phone (407) 823-2371, TTY/TDD only phone (407) 823-2116, before requesting accommodations from the professor.

**Documenting Student Academic Engagement in Webcourses@UCF for Financial Aid Requirement**

All faculty are required to document students’ academic activity at the beginning of each course. For this course, the instructor will document your attendance at the first week’s class. If you are not able to attend the first class, please contact the instructor for an alternative assignment by Friday of the first week of classes.

**Questions about grading?**

Late assignments may be accepted for partial credit unless otherwise noted above on Evaluation Procedures. For written assignments, you have **seven days** from the day your assignment grade is posted on Webcourses to resubmit work for re-grading. After re-grading, please set up an appointment to discuss your questions. All resubmissions are subject to a 100% review, not just specific questions (meaning we will review the ENTIRE assignment again). This is not a forum for complaints without justification. Please only resubmit work under two circumstances: (1) We have added up points wrong on an assignment (we are human so this is bound to happen from time to time); (2) You have strong written justification for why points should not have been taken off your work. You must be able to back this up with a reference to notes, assignment instructions, or class instructions.

***Special Note:*** *The instructor reserves the right to make changes to the syllabus and/or assignment schedule at any point during the semester. It is your responsibility to ensure you have the most up-to-date copy of the course syllabus and note changes when announced. If changes are made to the syllabus when you are not in class, it is your responsibility to check with your peers if changes were made. At the instructors’ discretion, we will make available an up-to-date copy online for download.*