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| **1. Course title/number, number of credit hours** | |
| IDS 1911 – Introduction to Undergraduate Research I: Lower Division  1 credit hour | |
| **2. Course prerequisites, corequisites, and where the course fits in the program of study** | |
| Permission of instructor  This is a 1‐credit course that prepares students for engagement in undergraduate research. | |
| **3. Course logistics** | |
| *Term*: Fall 2017  This is a classroom lecture course  *Time*: Monday 12:30 ‐ 1:50 pm (Lecture) | |
| **4. Instructor contact information** | |
| *Instructor’s name Office address Office Hours*  *Contact telephone number Email address* | Dr. Donna Chamely-Wiik  General Classroom South, Room 209  By appointment  561‐297‐0046  [dchamely@fau.edu](mailto:dmeeroff@fau.edu) |
| **5. TA contact information** | |
| *TA’s name Office address Office Hours*  *Contact telephone number Email address* |  |
| **6. Course description** | |
| This 1-credit course will introduce first-year students to academic research and prepare them for engagement in undergraduate research. | |
| **7. Course requirements** | |
| There are two parts to this class, 1) regularly scheduled class meetings and 2) three-hour weekly research apprenticeship sessions for five weeks. Attendance to both the scheduled class and the apprenticeship is mandatory. The research apprenticeship will continue in the spring semester for another seven weeks as part of Introduction to Research II course. | |

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| **8. Course objectives/student learning outcomes/program outcomes** | | | |
| *Course objectives* | | At the end of this course and apprenticeship, students will be able to  1. Be prepared for academic and research success 2. Learn about research in a wide variety of STEM disciplines 3. Understand basic expectations and requirements of the undergraduate researcher when conducting research with a faculty mentor or in a professional environment 4. Find literature relevant to your research and determine the differences between primary and secondary literature 5. Critically review a research paper to identify important research components such as research question, methodology, major findings and evidence-based conclusions | |
| *Student learning outcomes*  *& relationship to ABET a‐k objectives* | | 1. Ability to follow scientific process and discovery (a, b, e, h, i, j, k) 2. Ability to identify research topics and review the literature (a, e, f, h, k) 3. Ability to critically review scientific writing (a, b, c, f, j, k) 4. Ability to conduct a research apprenticeship in a mentored setting (a,b,d,e,f,g,h,i,j,k) | |
| **9. Course evaluation method** | | | |
| Item | | IDS1911 | *Note*: Class participation and discussions are important. Attendance to scheduled class time is part of the grade.  Presentations are required |
| Attendance and Participation | | 20% |
| Class assignments and Homework | | 45% |
| Apprenticeship | | 30% |
| Focus Group | | 5% |
| **10. Course grading scale** | | | |
| 92‐100 | A | * The minimum score to pass is “C” * Overall performance as related to course objectives and outcomes is evaluated and considered during grading. * Achievement below 60% on an assignment is considered failure to meet the module objectives. | |
| 90‐91 | A‐ |
| 88‐89 | B+ |
| 82‐87 | B |
| 80‐81 | B‐ |
| 78‐79 | C+ |
| 72‐77 | C |
| 70‐71 | C‐ |
| 68‐69 | D+ |
| 62‐67 | D |
| 60‐61 | D‐ |
| <59 | F |
| **11. Policy on makeup tests, late work, and incompletes** | | | |
| *Makeups* are given only if there is solid evidence of a medical or otherwise serious emergency that prevented the student of participating in the exam.  *Late work* is unacceptable.  *Incomplete grades* are against the purpose of this class. Unless there is solid evidence of medical or otherwise serious emergency situation, incomplete grades will not be given. | | | |

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| **12. Special course requirements** |
| None |
| **13. Classroom etiquette policy** |
| University policy requires that in order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular phones and laptops, are to be disabled in class sessions. |
| **14. Disability policy statement** |
| In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS)—in Boca Raton, SU 133 (561‐297‐3880); in Davie, LA 203 (954‐236‐1222); or in Jupiter, SR 110 (561‐799‐8585) —and follow all SAS procedures. |
| **15. Honor code policy** |
| Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and place high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. See University Regulation 4.001 at [www.fau.edu/regulations/chapter4/4.001\_Code\_of\_Academic\_Integrity.pdf](http://www.fau.edu/regulations/chapter4/4.001_Code_of_Academic_Integrity.pdf) |
| **16. Required texts/reading** |
| * Canvas registration * Handouts/lecture notes provided by instructor |
| **17. Supplementary/recommended readings** |
| Getting In: The Insider's Guide to Finding the Perfect Undergraduate Research Experience  Authors: David G. Oppenheimer and Paris H. Grey  Paperback: 178 pages  Publisher: Secret Handshake Press; 1 edition (September 1, 2015)  ISBN-10: 0692488340  ISBN-13: 978-0692488348 |

This course will focus on the following five objectives:

1. Be prepared for academic and research success
2. Learn about research in a wide variety of STEM disciplines
3. Understand basic expectations and requirements of the undergraduate researcher when conducting research with a faculty mentor or in a professional environment
4. Find literature relevant to your research and determine the differences between primary and secondary literature
5. Critically review a research paper to identify important research components such as research question, methodology, major findings and evidence-based conclusions

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|  | **Date** | **Topic** | **Assignment** |
| Week 1 | August 21, 2017 | Syllabus Review and In-Class Assessment  Getting Started at FAU and in Undergraduate Research and Inquiry | Pre-Assessment  Homework: Syllabus Quiz  Both due August 27th at midnight |
| Week 2 | August 28, 2017 | What is Science and Academic Research  Communicating with your mentor | STEM Interest Inventory  Homework: Faculty email activity  Due September 3rd at midnight |
| Week 3 | September 4, 2017 | *No Class*: University Closed (Labor Day)  Time management and establishing your own schedule | Research and academic timeline |
| Week 4 | September 11, 2017 | Working with Faculty/Graduate Students & Laboratory Etiquette  Academic Advising & Degree Requirements | Schedule Advising Appointment |
| Week 5 | September 18, 2017 | Laboratory Safety Practical | Complete CITI training – COI module |
| Week 6 | September 25, 2017 | Lab Tours/ Research presentations | Homework: Lab Site Reflection Worksheet  Due October 1st at midnight |
| Week 7 | October 2, 2017 | Lab Tours/Research presentation | Homework: Lab Site Reflection Worksheet  Due October 8th at midnight |
| Week 8 | October 9, 2017 | Research Skills Part I: Finding Literature  Plagiarism, Misuse of Sources, and appropriate field-specific formatting  The Research Process - Peer Review, Manuscripts, & Grants  Proposal Overview Part I | Library Scavenger Hunt  Homework: Library Module  Homework: Plagiarism Activity  Homework: Reading Primary Literature II  Homework: Proposal Topic Review  Due October 15th at midnight |
| Week 9 | October 16, 2017 | Research expectations (Mentor and Mentee)  Apprenticeship Overview & Assignments  Graduate Research Mentor Meet & Greet  Research Ethics | Ethics in Scientific Writing  Homework: Mentor Biography Worksheet & Contact Graduate Research Mentor to Arrange Apprenticeship Time  Homework: research summary of mentor  Due October 22nd at midnight |
| Week 10 | October 23, 2017 | **Apprenticeship Week**  Research Skills Part II - Reading Primary & Secondary Literature | Apprenticeship Log: Week 1  Reading Primary Literature I  Homework: Secondary Literature  Due October 29th at midnight |
| Week 11 | October 30, 2017 | **Apprenticeship Week Only** | Apprenticeship Log: Week 2  Due November 5th at midnight |
| Week 12 | November 6, 2017 | **Apprenticeship Week Only** | Apprenticeship Log: Week 3  Due November 12th at midnight |
| Week 13 | November 13, 2017 | **Apprenticeship Week**  Creating a Portfolio- Resumes, Cover Letters, and Personal Statements  Off- and On-Campus Research and Internship Opportunities | Apprenticeship Log: Week 4  Create a LinkedIn account, and CV  Due November 19th at midnight |
| Week 14 | November 20, 2017 | **Apprenticeship Week Only** | Apprenticeship Log: Week 5  Identify Summer Internship/Research Program and Submit Resume/Cover Letter Draft  Due November 26th at midnight |
| Week 15 | November 27, 2017 | Applying to research opportunities | Annotated Bibliography & Outlined Literature Review  Due December 3rd at midnight |
| Week 16 | December 4, 2017 | ***Focus Group*** |  |