

	BIOL 4390
Course	INDEPENDENT RESEARCH/ADVANCED WRITING IN
	BIOLOGY/BIOCHEMISTRY/MOLECULAR AND CELL BIOLOGY
Professor	Mehmet Candas
Term	FALL 2016

## **Contact Information**

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Email Address	candas@utdallas.edu
Other Information	Meetings are arranged by appointment only.

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		This is an interactive course carried out through individual instructions with the main objective of improving independent research skills and increasing ability to write with precision and style. It entails a semester-long project to produce a term paper by engaging students in perceptive reading and coherent writing activities. Assignments underline organization of scientific ideas and critical use of research papers and review articles. The theme of the term paper is determined in consultation and chosen from a broad range of biosciences topics including biochemistry, molecular and cell biology, medicine, pharmacology, neurosciences, biotechnology and bioengineering, among others). Topic preference is given to subject matters that are not included or not covered in sufficient depth in other courses.
	Course	Student meets periodically with the instructor and communicates via e-mail to report activity and progress. Meetings are scheduled once a month, or more, depending on need. Guidance and instructions focus on application of effective writing strategies to communicate scientific facts and sophisticated theories.
	Description	The overall aim is to clarify the fundamentals of thematic writing process
	Description	through review of scientific literature, research design, organization of ideas,
		and writing with scientific description, comparison and arguments.
		Upon assignment of a topic, student analyzes scientific literature, collects and read material sources, and develops an outline to write a thematically-centered analytical essay in the form of an at least 15 pages long term paper. Student is expected to develop the ability to write the paper similar to an original research paper or an academic report in which the topic's or research project's background, objective, scope, motivations, techniques, results, significance, conclusions and related interpretations are described with proper reference citations. Draft papers are evaluated 2-3 weeks before the semester ends, and final reports are submitted electronically at the end of classes. The papers are judged by criteria including, originality, style, format, scientific content, clarity, completeness and organization of the work.

Course Objectives	<ul> <li>Upon completion of the course, students will be experienced in:</li> <li>Organizing ideas and developing outlines for scientific essays</li> <li>Defining tasks, creating themes and research roadmaps (effective strategies for writing)</li> <li>Constructing strong thesis statements</li> <li>Defining objective, motivation, and scope of analytical essays</li> <li>Writing abstract, introduction, and conclusion paragraphs for scientific papers</li> <li>Developing effective search and information seeking strategies by utilizing internet, keywords and library resources</li> <li>Rhetorical analysis of scientific literature to synthesize and evaluate scientific concepts and arguments</li> <li>Citing references with appropriate format</li> </ul>
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	Assessment and grading is based on strict criteria that underscores prompt communication with the instructor and submission of a set of documents in expected content, originality, style and format as well as in a given time frame.
	There are at least 3 required meetings that you need to show progress of your work:
	<ul> <li>FIRST MEETING – Either prior to the beginning of the semester or in the first 2 weeks of enrollment in the course, you need to arrange a meeting to discuss your ideas and how you will engage in the project and progress. Please bring a hard copy written document (does not have to be formal) that includes the following:</li> </ul>
	<b>1. Tentative title</b> for the paper.
Evaluation	2. Research plan (draft) that explicitly defines the following:
and	<ul> <li>A brief background of the topic</li> <li>Cignificance of the topic</li> </ul>
Grading	<ul> <li>Significance of the topic</li> <li>Objective of variance of</li> </ul>
Criteria	<ul> <li>Objective of <u>your</u> paper</li> </ul>
	Scope of <u>your</u> paper
	<b>3.</b> A tentative outline for the paper:
	<ul> <li>10 simple questions about the subject - you should ask</li> </ul>
	questions that address specific concepts you may want to
	include in your paper.
	<ul> <li>Potential ideas (main sections, subtopics and</li> </ul>
	section/subtopic titles) that you want to consider in the
	paper.
	<ul> <li>The sections and subtopics should be arranged in a logical</li> </ul>
	sequence to provide a rational flow of ideas. <b>4. Literature review</b>
	<ul> <li>Material sources (review papers and/or original research articles, he shall that will be used in the study.</li> </ul>
	articles, books) that will be used in the study.
	The paper should be based on evaluation of several sources.

<ul> <li>SECOND MEETING – A month after the first meeting, you need to arrange a second meeting to show and discuss your progress. At this point, you should have started writing at least 30-50% of a draft version of your paper. Please bring a hard copy of your work, which should include the following:         <ol> <li>Title for the paper.</li> <li>Final outline for the paper.</li> <li>All subtopics with subtitles</li> <li>The subtopics have to be arranged in a logical sequence to provide a flow of ideas.</li> </ol> </li> </ul>
<ul> <li><b>3. Abstract (draft)</b> <ul> <li>clear description of the topic</li> <li>brief background: <ul> <li>What is known about the subject?</li> <li>What is not known?</li> </ul> </li> </ul></li></ul>
<ul> <li>objective of the paper:</li> <li>What do you want to explain in this paper?</li> <li>scope of the paper:</li> </ul>
<ul> <li>What is the specific emphasis in this paper?</li> <li>What is the broad implication of the subject covered in this paper?</li> </ul>
- Why it is important to know about this topic?
4. Introduction (draft)
<ul> <li>Clear introduction to the topic without details: <ul> <li>What is the subject you are covering in this paper?</li> <li>Why it is important?</li> <li>What is the broad implication of this topic?</li> <li>What do you want to achieve in exploring this topic?</li> <li>What aspects of the topic are you going to specifically discuss in your paper?</li> <li>Are there any specific comparisons and/or contrasts you want to do in this paper?</li> </ul> </li> </ul>
<ul> <li>THIRD MEETING – In 1-2 weeks before the end of classes, a hard-copy penultimate draft of your term paper should be shown. The draft should incorporate the following components:         <ol> <li>TITLE of the paper</li> <li>ABSTRACT that explicitly summarizes the following points:                 <ul> <li>The description of the main subject</li> <li>The importance of the subject</li> </ul> </li> </ol></li></ul>
<ul> <li>What is known and what needs to be known?</li> <li>The objective of your paper (why are you conducting research on this topic?)</li> </ul>
<ul> <li>The purpose of your approach (what are you exploring in your research and what are you trying to explain or convey to the reader?)</li> </ul>
The scope of your paper (what are the main aspects and

	how much dotail are you gottir		
2	how much detail are you gettir		
3.	<b>INTRODUCTION</b> – 1 or 2 paragraphs th		ріс
-	broadly and opens up the subject of th	e paper.	
4.	BODY OF THE PAPER.		
	<ul> <li>Sections and subsections with</li> </ul>		_
	<ul> <li>Figures (with figure titles, leger</li> </ul>	-	nce, and
	appropriately mentioned in the	e text).	
5.	CONCLUSION		
	<ul> <li>Redundantly but eloquently with</li> </ul>		
	<ul> <li>what specific topic was cov</li> </ul>	vered in this pape	r?
	<ul> <li>why it is important to know</li> </ul>	w more about the	this topic?
	<ul> <li>what are new research dire</li> </ul>	ections on this are	ea?
6.	REFERENCES		
	<ul> <li>Appropriate citation of ideas in</li> </ul>	n the paper	
	<ul> <li>Acceptable reference style</li> </ul>		
• FINAL	SUBMISSION - the final version of the pa	aper should be sul	bmitted as
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	ne is strictly enforced and late submissio	-	
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* Your paper must be written in your own words. You have to create your own version of arguments and descriptions and the composition must reflect your comprehension of the subject. Quoted sentences or paragraphs are not allowed even though reference(s) are cited. Copied and pasted sentences and paragraphs directly taken from other papers or Internet resources are not
acceptable; inclusion of information in such format will result in a failing grade for the paper.
Also see the "Academic Integrity" and "Plagiarism" information section in the syllabus.

	The following represents the minimum standards that must be met in order to obtain a passing grade in the course.
	1. The topic of the research and term paper assignment is chosen or agreed by the instructor. The topic can be within the context of biological, medical, biomedical, biotechnology and bioengineering applications. Fields and themes may vary.
	2. The paper must be at least 15 pages ( <u>excluding figures and references</u> ), and must meet the progress and content criteria indicated above.
	<b>3.</b> The paper must cite at least 10 articles from peer reviewed journals. For general background reading, textbooks, credible magazines, such as Scientific American, and web-site information are allowed in addition to the 10 papers required for the research and writing the paper.
Specific Instructions	<ul> <li>4. All papers should have:</li> <li>a) A title (should reflect the general and/or specific subject)</li> <li>b) A summary that provides information about the premise of the subject, objective, and scope of the paper. Important findings and/or critical information should be emphasized briefly with a conclusion. There is no need to cite references in the summary section.</li> <li>c) An introduction section (1-3 paragraphs) that portrays the general aspects of the subject. This section should provide some background information leading the way to the issue discussed in the paper. It should inform the reader about the general aspects of the topic, address some problems, questions, and challenges related to the topic. References should be cited.</li> <li>d) After the introduction, subtitled subsections should be used in the body of the paper. These subsections should discuss specific aspects of the topic in a logical order. However, if an experiment or particular scientific approach is covered in the paper, the discussion must not be just a summary of results. Neither should it be a list of procedures. References should be cited.</li> </ul>

	<ul> <li>e) Inclusion of tables, figures &amp; illustrations can be included in the paper whenever they enhance the clarity of the text. Any figure or table should be numbered and referred in the main text. Figure legends should be concise and descriptive. Stand-alone figures and tables are not accepted. If a table or figure is taken from a source, references should be cited.</li> <li>f) Conclusion – Discussion of the significance of the subject and/or experimental findings relevant to the questions addressed in the introduction, and how these results lead us to a better understanding of some general biological concepts.</li> <li>g) References – All sources used in the project must be cited in an acceptable and established manner. References ". Referenced items are listed numerically in the order they are cited in the text. Each reference must include authorship, title of papers, journal in which they were published, volumes, year of publication and page numbers.</li> <li>Example:</li> <li>E.M. Ruszala et al. Land plants acquired active stomatal control early in their evolutionary history. Curr. Biol., 21 (2011), pp. 1030–1035.</li> <li>Authors: use initials of first and second names with no spaces.</li> <li>Books: include the edition statement (ex: 3rd ed. or Rev ed.) between the title and place if it is not the first edition.</li> <li>Place: use abbreviations of states, not postal codes.</li> <li>Journal: abbreviate titles as shown in Index Medicus. If the journal does not paginate continuously through the volume, include the month (and day).</li> <li>Websites: include the name of the webpage, the name of the entire website, the full date of the page (if available), and the date you looked at it.</li> </ul>
	All term papers must be original work and written in your own words. Papers based on reports or papers presented previously in any other course in whatever form or shape will not accepted. Papers in which texts have been substantially copied from the articles will not be accepted.
	Deadlines are strictly enforced. Grades will be subtracted from late submissions unless student requests incomplete grade. Incomplete may be given if student has completed 70% of the work, or submitted a draft of his/her paper.
	All papers should be typed, 1 ½ space on 8.5 x 11 inch paper. Fonts smaller than standard (12 characters per inch) should not be used. The text should be at least 15 type written pages long, including references, and should not exceed 20 type written pages.

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	<ol> <li>The paper must be checked for grammar and spelling. Papers with significant grammatical and/or spelling mistakes will not receive an "A" grade.</li> </ol>
<b>F</b>	
	The University of Texas System and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UTD publication, <i>A to Z Guide</i> , which is provided to all registered students each academic year.
Student Conduct and Discipline	The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the <i>Rules and Regulations, Board of Regents, The University of Texas System, Part 1, Chapter VI, Section 3,</i> and in Title V, Rules on Student Services and Activities of the university's <i>Handbook of Operating Procedures.</i> Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations (SU 1.602, 972/883-6391). A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating the standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct.
Comet Creed	"As a Comet, I pledge honesty, integrity, and service in all that I do." (This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same.)
Campus Carry	The University's concealed handgun policy is posted on the campus carry website: http://www.utdallas.edu/campuscarry/
Sharing Confidential Information	Students considering sharing personal information in email, in person, or within assignments or exams should be aware that faculty members and teaching/research assistants are required by UT Dallas policy to report information about sexual misconduct to the UT Dallas Title IX Coordinator. Per university policy, faculty have been informed that they must identify the student to the UT Dallas Title IX Coordinator.
	Students who wish to have confidential discussions of incidents related to sexual harassment or sexual misconduct should contact the Student Counseling Center (972-883-2527 or after hours 972-UTD-TALK or 972-883-8255), the Women's Center (972-883-8255), a health care provider in the Student Health Center (972-883-2747), the clergyperson (or other legally recognized religious advisor) of their choice, or an off-campus resource (i.e., rape crisis center, doctor, psychologist). Students who are sexually assaulted, harassed, or victims

of sexual misconduct, domestic violence, or stalking, are encouraged to directly report these incidents to the UT Dallas Police Department at 972-883-2222 or to the Title IX Coordinator at 972-883-2218. Additional information and resources may be found at http://www.utdallas.edu/oiec/title-ix/resources. The faculty expects from its students a high level of responsibility and academic
honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.
Scholastic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the award of a degree, and/or the submission as one's own work or material that is not one's own. As a general rule, scholastic dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.
Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism (see general catalog for details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective.
The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. The university encourages all official student email correspondence be sent only to a student's U.T. Dallas email address and that faculty and staff consider email from students official only if it originates from a UTD student account. This allows the university to maintain a high degree of confidence in the identity of all individual corresponding and the security of the transmitted information. UTD furnishes each student with a free email account that is to be used in all communication with university personnel. The Department of Information Resources at U.T. Dallas provides a method for students to have their U.T. Dallas mail forwarded to other accounts.
It is the policy of the University of Texas at Dallas to adhere to the requirements of the United States Copyright Law of 1976, as amended, (Title 17, United States Code), including ensuring that the restrictions that apply to the reproduction of software are adhered to and that the bounds of copying permissible under the fair use doctrine are not exceeded. Copying, displaying, reproducing, or distributing copyrighted material may infringe upon the copyright owner's rights. Unauthorized distribution of copyrighted material, including unauthorized peer-to-peer file sharing, may subject students to appropriate disciplinary action as well as civil and criminal penalties. Usage of such material is only appropriate when that usage constitutes "fair use" under the Copyright Act. For more information about the fair use exemption, see <u>http://copyright.lib.utexas.edu/copypol2.html</u> .

	As a UT Dallas student, you are required to follow UT Dallas' copyright policy (UTDPP1043 at http://policy.utdallas.edu/utdpp1043) and the UT System's policy, UTS107 at <u>http://www.utsystem.edu/board-of-regents/policy-</u> <u>library/policies/uts107-use-copyrighted-materials</u> .
Withdrawal from Class	The administration of this institution has set deadlines for withdrawal of any college-level courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's responsibility to handle withdrawal requirements from any class. In other words, we cannot drop or withdraw any student. You must do the proper paperwork to ensure that you will not receive a final grade of "F" in a course if you choose not to attend the class once you are enrolled.
Student Grievance Procedures	Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's <i>Handbook of Operating Procedures</i> . In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originates (hereafter called "the respondent"). Individual faculty members retain primary responsibility for assigning grades and evaluations. If the matter cannot be resolved at that level, the grievance must be submitted in writing to the respondent with a copy of the respondent's School Dean. If the matter is not resolved by the written response provided by the respondent, the student may submit a written appeal to the School Dean. If the grievance is not resolved by the School Dean's decision, the student may make a written appeal to the Dean of Graduate or Undergraduate Education, and the deal will appoint and convene an Academic Appeals Panel. The decision of the Academic Appeals Panel is final. The results of the academic appeals process will be distributed to all involved parties. Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations.
Incomplete Grades	Incomplete grades will be granted only for work unavoidably missed at the semester's end and only if 70% of the course work has been completed. An incomplete grade must be resolved within 8 weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of <u>F</u> .
Disability Services	The goal of Disability Services is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 6:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m.

	The contact information for the Office of Disability Services is: The University of Texas at Dallas, SU 22
	PO Box 830688
	Richardson, Texas 75083-0688
	(972) 883-2098 (voice or TTY)
	Essentially, the law requires that colleges and universities make those reasonable adjustments necessary to eliminate discrimination on the basis of disability. For example, it may be necessary to remove classroom prohibitions against tape recorders or animals (in the case of dog guides) for students who are blind. Occasionally an assignment requirement may be substituted (for example, a research paper versus an oral presentation for a student who is hearing impaired). Classes enrolled students with mobility impairments may have to be rescheduled in accessible facilities. The college or university may need to provide special services such as registration, note-taking, or mobility assistance.
	It is the student's responsibility to notify his or her professors of the need for
	such an accommodation. Disability Services provides students with letters to
	present to faculty members to verify that the student has a disability and needs
	accommodations. Individuals requiring special accommodation should contact
	the professor after class or during office hours.
	The University of Texas at Dallas will excuse a student from class or other required activities for the travel to and observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, Tax Code, Texas Code Annotated.
Religious Holy Days	The student is encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, preferably in advance of the assignment. The student, so excused, will be allowed to take the exam or complete the assignment within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.
	If a student or an instructor disagrees about the nature of the absence [i.e., for the purpose of observing a religious holy day] or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the chief executive officer of the institution, or his or her designee. The chief executive officer or designee must take into account the legislative intent of TEC 51.911(b), and the student and instructor will abide by the decision of the chief executive officer or designee.

Technical Support	If you experience any issues with your UT Dallas account, contact the UT Dallas Office of Information Technology Help Desk: assist@utdallas.edu or call 972- 883-2911. UT Dallas provides eLearning technical support 24 hours a day/7 days a week. The services include a toll free telephone number for immediate assistance (1- 866-588-3192), email request service, and an online chat service. Please use this link to access the UTD eLearning Helpdesk: <u>http://www.utdallas.edu/elearning/eLearningHelpdesk.html</u> .
Off-Campus	Off-campus, out-of-state, and foreign instruction and activities are subject to state law and University policies and procedures regarding travel and risk-
Instruction and	related activities. Information regarding these rules and regulations may be
Course Activities	found at http://www.utdallas.edu/BusinessAffairs/Travel Risk Activities.htm.
	Additional information is available from the office of the school dean.

These descriptions and timelines are subject to change at the discretion of the Professor.