Course	**BIOL3301 Classical and Molecular Genetics; BIOL 3101 Workshop, Classical and Molecular Genetics**
Professor	Irina Borovkov, PhD
Term	Summer 2016 May 23rd – August 8th
Meetings	MWF 10:00 -11:15 am in SOM 2.115 Workshop: Monday or Wednesday 11:30 am – 12:20 pm SOM 12.210, 2.714

Professor's Contact Information

Office Phone	972 883 -6895
Office Location	SLC2.408
Email Address	irina.borovkov@utdallas.edu
Office Hours	Monday 12:00 -2:00 pm; or by appointment
Other Information	The best way to reach me is by e-mail address above

Graduate TAs:

Day of week	Section #	TA's name	TA's e-mail
Monday	BIOL3101OU1		
Wednesday	BIOL3101OU2		

General Course Information

Pre-requisites, Co-requisites, & other restrictions	BIOL2311 Introduction to Modern Biology I BIOL2281 Introductory Biology Laboratory CHEM2323 Introductory Organic Chemistry I. Co-requisite: concurrent enrollment in BIOL3101 Classical and Molecular Genetics workshop (3 semester hours).
Course Description	The phenomenon of heredity, its cytological and molecular basis; gene expression and transfer of genetic information. With major focus on mendelian genetics, bacterial and model eukaryotic systems; genetic recombination and chromosome mapping; gene interactions; application of recombinant DNA techniques to genetic analysis, modern approaches to study genetics.
Learning Outcomes	***Upon completing this course, students will:*** 1. Be able to discuss basic and more advanced areas of transmission and molecular genetics. 2. Be able to apply this knowledge to real-world problem solving in transmission and molecular genetics. 3. Begin to appreciate the intimate relationship between the various sciences (e.g., genetics and biochemistry) that lead to a more complete understanding of various biological problems through reading science material and by participating in discussions
Required Texts & Materials	Peter Russel iGenetics, A molecular approach, 3rd edition, ISBN 13:978-0-321-56976-9 The Turning Technologies "ResponseCard RF LCD" clickers

Suggested Texts, Readings, & Materials	Edward Edelson, Mendel and The Roots of Genetics, Oxford University Press, ISBN 0-19-512226-7 Philip R.Reilly, Abraham's Lincoln DNA and Other Adventures In Genetics, Cold Spring Harbor Laboratory Press, ISBN 0-87969-580-3 Zahlen, Doris. Does It Run In The Family? Rutgers University Press,

Course Policies

Grading (credit) Criteria	**All materials, announcements, assignments for the course will be posted on eLearning course page.** **Short version of lecture powerpoints** will be posted on eLearning .Full versions of the lectures will not be posted. Students will need to use clickers during the lectures. There will be quizzes and homeworks as a part of the course. **Quizzes** will be administered during workshops in the beginning of the class. One lowest grade for quizzes can be dropped **Homeworks** will be posted online. You will need to submit the solved problems in the beginning of a workshop. You will have four exams including the final one during the course There will be no grade curve for the exams but extra questions (up to 10% of the total grade) will be added to the exam. **The final grade** will be calculated based on both lecture and workshop grades. After exams, quizzes or exams are returned to students, one week is given to dispute the grade. After that no changes will be made. No make-up exam or quiz will be administered unless you have a documented emergency. Make-up exams will have no extra questions. There is no make-up for the final exam. *Under no conditions will make-up exams be given after the results of the exam are available to the rest of the class.* You will need to bring a UTD photo ID for the lecture exams. No exam or grade will be given to student without UTD photo ID (no exceptions). No other form of identification is acceptable. Cell phones should be kept in your backpacks during the lecture and especially during exams. Do not use your computers for the purposes other than the lecture during class**.** **Class Participation:** You will have the opportunity to earn points based on your participation in the lecture class as documented via use of your clicker. Participation points will NOT be awarded if you fail to either bring or properly utilize your clicker during lecture. Students who earn between 80%-100%, 60-79%, 50-59% of the total possible clicker points will receive 15, 10, 5 course points. Those who get less than 50 % of correct answers but have full attendance will get 3 points. **Cheating** at the exams or workshops will be reported to Judicial Committee.

Grades calculation:

Assessment Activity	**Points**
Exams x 4, 100 points each	400
Quizzes, x10, 10 points each, one lowest dropped	100 (90)
Workshops participation 5 pts each homework x10	50 pts
Clickers	Up to 15
Total	555

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Grades:

97-100% A+
93 -96% - A
89 – 92% - A-
86 -88% - B+
82 – 85% – B
79-81% – B-
76 -78% - C+
72 – 75% – C
69 – 71% – C-

Extra Credit	**No extra credit will be offered**
Class Attendance	Attendance of all lectures and workshop sessions is extremely important. Do not attend workshop other than the one you are registered for without prior permission of the instructor. Instructor and TA need to be notified of the workshop change a week before.
Student Conduct and Discipline	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, *A to Z Guide*, which is provided to all registered students each academic year. 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 *Rules and Regulations, Board of Regents, The University of Texas System, Part 1, Chapter VI, Section 3*, and in Title V, Rules on Student Services and Activities of the university's *Handbook of Operating Procedures*. 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.
Academic Integrity	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.
Email Use	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.
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, I 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 *Handbook of Operating Procedures*. 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	As per university policy, 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 eight (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 **F**.
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.
Religious Holy Days	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. 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.
Off-Campus Instruction and Course Activities	Off-campus, out-of-state, and foreign instruction and activities are subject to state law and University policies and procedures regarding travel and risk-related activities. Information regarding these rules and regulations may be found at http://www.utdallas.edu/BusinessAffairs/Travel_Risk_Activities.htm. Additional information is available from the office of the school dean.

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