

PCB 3063, GENETICS, FALL 2017, SECTION 4608

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Course website: UF e-learning

Text: Benjamin A. Pierce 2017 Genetics: A Conceptual Approach, 6th ed. Pearson, New York.

Schedule: M,W, periods 3 and 4 (9:35 - 11:30), LIT 0109

Description:

PCB 3063 is an introduction to genetics course covering topics from Mendellian genetics to molecular biology and genomics. The class will provide students with a solid foundation in genetics either as a stand-alone course or as a prerequisite to other life sciences courses offered on campus. The course emphasis is on problem solving and conceptual synthesis. Course performance will be measured by three exams and a class project (details in class).

Email Policy:

All email correspondence must be from your ufl.edu account, have your full name in the body of the email, and contain your course and section number in the subject line. Emails not meeting these requirements may not be recognized by my email filters, and thus may not be answered.

Grading:

25% Exam I; 25% Exam II; 25% Class Project and 25% Exam III (or cumulative).

Grades are based either on the average of 3 stand-alone exams (each examining 1/3 of the material) + project;

OR

on the average of exam I, exam II, project and cumulative exam. If your score on the cumulative exam is higher than your averaged score, the score on the cumulative exam can substitute for your average score for your course grade.

- Regrades must be requested in writing, and be taken within 7 days of return of exam.
- **No make-up exams will be given without prior permission or documentation of illness.** In case of illness, a letter from your primary care provider is required. A personal matter requires a note from the Dean of Students (P202 Peabody Hall). **Make up exams may be given in an essay format.**
- Attendance in class is not required, but material covered only in lecture may appear on exams.
- Grading will be on a per cent scale.

93 – 100%	A
90 – 92.9%	A-
87 - 89.9%	B+
83 – 86.9%	B
80 – 82.9%	B-
77 – 79.9%	C+
73 – 76.9%	C
70 – 72.9%	C-
67 – 69.9%	D+
63 – 66.9%	D
60 – 62.9%	D-
<60	E

A curve **may** be applied at the instructor's discretion. The curve can only raise your grade, not decrease it. Please see <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx> for UF's policy for assigning grade points.

Academic Honesty:

All students registered at the University of Florida have agreed to comply with the following statement:

“I understand that the University of Florida expects its students to be honest in all their academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action up to and including expulsion from the University.”

In addition, on all work submitted for credit the following pledge is either required or implied:

“On my honor I have neither given nor received unauthorized aid in doing this assignment.”

If you witness any instances of academic dishonesty in this class, please notify the instructor or contact the Student Honor Court (392-1631) or Cheating Hotline (392-6999).

For additional information on Academic Honesty, please refer to the University of Florida Academic Honesty Guidelines at:

<http://www.dso.ufl.edu/judicial/procedures/academicguide.html>.

Accommodations for Students with Disabilities:

Students with disabilities who require accommodations should first seek assistance at the Dean of Students Office of Disability Resources, in Peabody 202 (phone: 352-392-1261). The Dean of Students Office of Disability Resources will work with the instructor to accommodate the student. Please see the University of Florida Disability Resources website for more information at: <http://www.dso.ufl.edu/drp/services/>.

Counseling Center:

Many students experience test anxiety and other stress related problems. "A Self Help Guide for Students" is available through the Counseling Center (301 Peabody Hall, 392-1575) and at their website: <http://www.counsel.ufl.edu/>

Other Information:

Please do not request individual special treatment at the end of the semester; we do not adjust grades for individuals for any reason. Plan to do well on all exams from the beginning of the semester.

Special pre-exam review sessions:

TBA.

Syllabus is subject to change. While it is very likely that the posted exam and poster session dates will be adhered to, these should be considered tentative ONLY!! Actual dates will be announced well in advance.

Genetics Syllabus, Fall 2016

Week	Topic	Read:	Suggested Problems	Subtopics
1 8/21 & 8/23	Transmission Genetics I	CH 2,3	TBA	Genetics Introduction; mitosis & meiosis; Mendelian genetics: Punnett squares & probability,
2 8/28 9/30	Transmission Genetics I Transmission Genetics II	CH 3 CH 4	TBA	Mendelian genetics continued Sex Chromosomes, Sex Determination and
3 9/4 9/6	Labor Day Transmission Genetics II	CH4/5	TBA	Epistasis, lethality, etc.
4 9/11 9/13	Transmission Genetics II Transmission Genetics III	CH 5/6 CH 6/7	TBA	Pedigree Analysis Linkage & mapping in eukaryotes
5 9/18 9/20	Transmission Genetics III Chromosomes	CH 7 CH 8	TBA	Linkage Mapping in eukaryotes Chromosome Variation
6 9/25 9/27	Microbial Genetics Exam I	CH9	TBA	Microbial Genetics EXAM I 9/27
7 10/2 10/4	Molecular Genetics I	CH 10-12	TBA	DNA: the genetic material; replication & recombination; chromatin structure
8 10/9 10/11	Molecular Genetics II	CH 13 CH 14	TBA	Transcription RNA
9 10/16 10/18	Molecular Genetics III	CH 15 CH 16	TBA	The Genetics code/Translation Regulation of gene expression: prokaryotes
10 10/23 10/25	Molecular Genetics IV/V	CH 16/17 CH 17/18	TBA	Regulation of gene expression: prokaryotes Regulation of gene expression: eukaryotes DNA Repair

11 10/30 11/1	Molecular Genetics VI EXAM II	CH 18	TBA	DNA Repair EXAM II 11/1
12 11/6 11/8	Molecular Genetics V	CH 19 CH 20	TBA	Biotechnology Genomics
13 11/13 11/15	Molecular Genetics VI	CH 20/21 CH 22	TBA	Genomics & Epigenomics Developmental Genetics
14 11/20 11/22	Molecular Genetics UF Thanksgiving Break	CH23		Cancer Genetics
15 11/27 11/29	GENETICS III GENETICS III	CH 24-26	TBA	Population genetics and Evolutionary genetics
16 12/4 12/6	Class Project Presentation Class Project Presentation			Class Project 12/3

FINAL EXAM DECEMBER 13