Instructor Information
instructor: Robert S. Dotson, Ph.D. office: 4002 Stern Hall
email: rdotson@tulane.edu phone: (865-5547
office hours: Mon, Wed 11:00 AM – 12:00 PM; Tue, Thu 10:00 – 11:30 AM;
and other times by appointment.

Course Information and Learning Objectives
catalog description: The principles of genetic analysis and the nature of genes. Discussion of
DNA, chromosomes, and molecular mechanism of replication, mutation,
expression, and transmission of heritable characteristics.
prerequisites: CELL 101 General Biology
program objectives: The student should acquire a broad knowledge of the cellular and molecular
basis of life and be able to apply molecular techniques to medical,
technological, and environmental issues.
general course objectives: This course provides students with an introduction into the principles
of molecular biology and an in depth understanding of classical Mendelian
 genetics. This course integrates chemistry, biology, and mathematics and
provides a foundation for further study in the biological sciences and medicine.
specific learning outcomes: At the completion of this course, students will be able to describe
the relationship between the behavior of DNA, RNA, and protein on the
molecular level and the transmission of heritable characteristics. The student
should be able to recognize patterns of inheritance, solve problems related to
heredity, and appreciate the fundamental mechanisms of scientific inquiry.

Course Materials, Assignments, and Grading Policies
required text: R. J. Brooker, Genetics Analysis and Principles, 3rd edition
attendance/exams: Attendance is mandatory. Make-up exams are not given except under
exceptional circumstances. Exams cover both material from the lectures and the
assigned reading.
reading/homework: Each student is expected to take an active role in his or her learning and
read the assigned chapter or chapters before class. To promote keeping up with
the reading, there will be regular quizzes and homework assignments. Some of
these assignments will be administered in class. Additionally, some
assignments will be managed via Blackboard, which should be visited regularly.
http://mytulane.blackboard.com/
honor code: All students are required to adhere to the Honor Code. The Honor Code can be
found online.
http://studentaffairs.tulane.edu/Judicial/CodeofStudentConduct.pdf

grading: each exam 25%
all quizzes and assignments 25%

90 > B+ ≥ 87.5 80 > C+ ≥ 77.5 70 > D+ ≥ 67.5
92.5 > A– ≥ 90 87.5 > B ≥ 82.5 77.5 > C ≥ 72.5 67.5 > D ≥ 62.5 60 > F
<table>
<thead>
<tr>
<th>date</th>
<th>topic</th>
<th>chapters/sections from text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sep 02</td>
<td>introduction and nucleic acid chemistry</td>
<td>1, 9</td>
</tr>
<tr>
<td></td>
<td>mitosis and DNA packaging</td>
<td>3.1–3.2, 10</td>
</tr>
<tr>
<td>16</td>
<td>DNA replication and gene transcription</td>
<td>11, 12.1–12.3</td>
</tr>
<tr>
<td>23</td>
<td>RNA modification and translation</td>
<td>12.4, 13</td>
</tr>
<tr>
<td>30</td>
<td><strong>Exam I</strong></td>
<td></td>
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<tr>
<td>Oct 07</td>
<td>bacterial gene regulation</td>
<td>14.1–14.2</td>
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<tr>
<td>14</td>
<td>eukaryotic regulation and development</td>
<td>15, 23.1–23.2</td>
</tr>
<tr>
<td>21</td>
<td>mobile elements, mutation, and DNA repair</td>
<td>16, 17.3</td>
</tr>
<tr>
<td>28</td>
<td>meiosis, sex, and cytogenetics</td>
<td>3.3, 8</td>
</tr>
<tr>
<td>Nov 04</td>
<td><strong>Exam II</strong></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Mendelian inheritance</td>
<td>2, 3.4</td>
</tr>
<tr>
<td>18</td>
<td>extensions and exceptions to Mendel</td>
<td>4, 5.1</td>
</tr>
<tr>
<td>25</td>
<td>linkage mapping and recombination</td>
<td>5.2, 17.1</td>
</tr>
<tr>
<td>02</td>
<td>non-Mendelian and quantitative inheritance</td>
<td>7, 25</td>
</tr>
<tr>
<td>09</td>
<td><strong>Exam III</strong></td>
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