Biology course for Science Majors:
BIOL 1710 is the first half of a two semester, 1st year Biology sequence designed for science majors, students who require a biology class which will meet the requirements for Biology majors (e.g. premedical or other pre-professional students who may be completing a non-biology major). The intent of this course sequence is to provide the student with a broad background in biology that can serve as a prerequisite for higher-level courses in the field. This course is not designed for non-science majors.

COURSE STRUCTURE:
This section of BIOL 1710 will utilize both face-to-face and online elements. Students must attend the face-to-face lecture and recitation meetings as assigned in the syllabus. Students must also complete online modules or activities by the stated deadlines. Online modules require that the student have access to a computer that has the minimum configuration and software needed to complete the course activities (on-campus computer labs are available for student use).

LABORATORY:
To earn laboratory science credit for this course you must also complete the associated laboratory course of BIOL 1760, Biology for Science Majors Laboratory. The laboratory class and its grade are completely independent of the lecture course grade. You may take the laboratory course in the same semester as the lecture or during a later semester.

CLASS POLICIES:
All students in the course are expected to know and follow these course policies:

- Attendance is required at all lecture and recitation meetings. There will be a grade associated with each meeting. Makeup work will only be provided for University Excused Absences and must be arranged in advance. Students with medical absences must provide documentation within 1 week of the absence and will be reviewed on a case-by-case basis.

- Cell phones, pagers, and other electronic devices must be silenced during class meetings. If such a device should ring during lecture, the student must leave class immediately and will be considered absent for the remainder of the period (including any quizzes, graded activities, or exams given that day).

- Late work will not be accepted. Be sure you understand the due dates for all activities. Contact your instructor or TA immediately and before the deadline if you encounter any technical problems.
- Each student is expected to work independently on all assignments unless specifically instructed otherwise by the instructor. Academic dishonesty (cheating) will not be tolerated. Students found cheating may receive a “0” for the assignment and could be removed from the course and/or reported to the Dean of Students Office.

Disabilities Accommodation:
The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information see the Office of Disability Accommodation website at http://www.unt.edu/oda. You may also contact them by phone at 940-565-4323.

COURSE SYLLABUS/TENTATIVE SCHEDULE
BIOL 1710.001 – Biology for Science Majors I

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Date</th>
<th>Topic</th>
<th>Chapter/Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day 1</td>
<td>June 6</td>
<td>L: #1 Course Introduction. [For each class meeting, complete textbook readings listed at right before the lecture meeting. For example, for Day 2 read Ch. 2 &amp; 3.1-3.3 by the June 7 lecture meeting]</td>
<td>Ch.1 (read after lecture);</td>
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<td>R: #1 Recitation Introduction &amp; Making of a Theory.</td>
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<td>O: Voyage of the Beagle Interaction, Nature of Science web pages. Lecture #1 Quiz. [See Blackboard for links. Quiz due by 7:45am on June 7]</td>
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<tr>
<td>Day 2</td>
<td>June 7</td>
<td>L: #2 Basic chemistry/Biological chemistry.</td>
<td>Ch. 2, 3.1-3.3</td>
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<td>R: #2 Case Study: Scientific Method.</td>
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<td>O: Functional Group Assignment, Lecture #2 Quiz. [Online activities due by 7:45am on June 8]</td>
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<tr>
<td>Day 3</td>
<td>June 8</td>
<td>L: #3 Biological chemistry (cont.)/Origin of Life &amp; The first cells.</td>
<td>Ch. 3.4-3.5</td>
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<td>R: #3 Biological Chemistry Activity.</td>
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<td>O: Lecture #3 Quiz. [Online activities due by 7:45am on June 9]</td>
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<tr>
<td>Day</td>
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<td>4</td>
<td>June 9</td>
<td>#4 Cell Structure and Function.</td>
<td>#4 Gallery Walk Activity.</td>
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<tr>
<td>5</td>
<td>June 10</td>
<td>Exam #1 (Ch. 1-4)</td>
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<td>6</td>
<td>June 13</td>
<td>#5 Membranes</td>
<td>#5 TBA</td>
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<td>7</td>
<td>June 14</td>
<td>#6 Cell Communication</td>
<td>#6 Mitosis Activity</td>
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<tr>
<td>8</td>
<td>June 15</td>
<td>#7 Cell Reproduction</td>
<td>#7 Meiosis Activity</td>
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<tr>
<td>9</td>
<td>June 16</td>
<td>Exam #2 (Ch. 5, 9-11)</td>
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<tr>
<td>10</td>
<td>June 20</td>
<td>#8 Cell Metabolism: Glycolysis.</td>
<td>#8 TBA</td>
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<tr>
<td>11</td>
<td>June 21</td>
<td>#9 Respiration and Fermentation.</td>
<td>#9 Concept Mapping: Glucose Catabolism.</td>
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<tr>
<td>12</td>
<td>June 22</td>
<td>#10 Photosynthesis.</td>
<td>#10 TBA</td>
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<tr>
<td>13</td>
<td>June 23</td>
<td>Exam #3 (Ch. 6-8)</td>
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Module 6
| Day 14 | June 27 | L: #11 Chromosomal Basis of Inheritance.  
R: #11 Genetic Counseling Case Study.  
O: Lecture #11 Quiz. Other activities as announced  
* [Online activities due by 7:45am on June 28]  |
| Day 15 | June 28 | L: #12 DNA Structure and Function  
R: #12 TBA  
O: Lecture #12 Quiz. Other activities as announced  
* [Online activities due by 7:45am on June 29]  |
| Day 16 | June 29 | L: #13 Gene to Protein  
R: #13 Translation Activity.  
O: Lecture #13 Quiz. Other activities as announced  
* [Online activities due by 7:45am on June 30]  |
| Day 17 | June 30 | Exam #4 (Ch. 12-15)  
July 4 | Holiday (no class)  |
| Day 18 | July 5  | L: #14 Gene Expression  
R: #14 TBA  
O: Lecture #14 Quiz. Other activities as announced  
* [Online activities due by 7:45am on July 6]  |
| Day 19 | July 6  | L: #15 Biotechnology  
R: #15 TBA  
O: Lecture #15 Quiz. Other activities as announced  
* [Online activities due by 7:45am on July 7]  |
| Day 20 | July 7  | L: #16 Paper Presentations & Final Exam Review.  
R: #16 Semester Review Activity (attendance required)  
O: Review course lectures and modules in preparation for comprehensive final exam.  |
| Day 21 | July 8  | FINAL EXAM (50% from Ch. 16-17: 50% comprehensive)  |
GRADING:
Your course grade will consist of the following elements:

20% Quizzes and Activities (online and in-class, based on % correct out of all possible points)
- This includes quizzes (in-class and online), lecture activities, online discussions, and scientific paper review and presentation project (this counts as a double grade).

15% Examination #1 (calculated from % correct out of 100 possible points)
- Multiple choice, fill-in-the-blank, and short answer exam covering the material included in Ch. 1-4.

15% Examination #2 (calculated from % correct out of 100 possible points)
- Multiple choice, fill-in-the-blank, and short answer exam covering the material included in Ch. 5, 9-11

15% Examination #3 (calculated from % correct out of 100 possible points)
- Multiple choice, fill-in-the-blank, and short answer exam covering the material included in Ch. 6-8.

15% Examination #4 (calculated from % correct out of 100 possible points)
- Multiple choice, fill-in-the-blank, and short answer exam covering the material included in Ch. 12-15.

20% Final Examination (calculated from % correct out of 100 possible points)
- Multiple choice, fill-in-the-blank, and short answer exam covering the material included in Ch. 16-17 (50% of exam). The remaining 50% of the exam is comprehensive and includes material from throughout the semester.

100% Overall % Grade (Letter grades assigned: 90+=A, 80-89=B, 70-79=C, 60-69=D, <60=F)