

TRIDENT TECHNICAL COLLEGE

BIO 100 – INTRODUCTORY BIOLOGY

COURSE PREFIX & NUMBER: BIO 100

INSTRUCTOR: _____

OFFICE: _____

OFFICE TELEPHONE: _____

OFFICE HOURS: _____

Get the information above from your instructor on the first day of class.

**LEAD INSTRUCTOR FOR BIO 100:
Lawrence Walker, phone: 720-5605
E-mail: larry.walker@tridenttech.edu**

**ADMINISTRATIVE ASSISTANT:
Emily Troxel, phone: 574-6015**

COURSE TITLE:	Introductory Biology	PREFIX & NUMBER	BIO 100
LECTURE HOURS:	4	LAB HOURS:	0
CONTACT HOURS:	4	CREDIT HOURS:	4

CATALOG DESCRIPTION: This general biology course introduces the principles of biology. (Nondegree credit)

REQUIRED MATERIALS:

- *Lecture Textbook:* Campbell, Reece, Simon. (2007). *Essential Biology with Physiology* (2nd ed.). Pearson Benjamin/Cummings.

GRADING SYSTEM AND POLICY:

Grading is accomplished by combining all points which you have earned for lecture exams, daily assignments, and the final exam and converting this number to a percentage score.

<table border="1"> <thead> <tr> <th style="text-align: left;"><u>METHOD OF EVALUATION</u></th> <th style="text-align: right;"><u>Points</u></th> </tr> </thead> <tbody> <tr> <td>Daily Assignments (Quizzes, etc.)</td> <td style="text-align: right;">100</td> </tr> <tr> <td>Seven Major Lecture Exams.....</td> <td style="text-align: right;">700</td> </tr> <tr> <td><u>Departmental Comprehensive Final Exam....</u></td> <td style="text-align: right;"><u>150</u></td> </tr> <tr> <td>Total</td> <td style="text-align: right;">950</td> </tr> </tbody> </table>	<u>METHOD OF EVALUATION</u>	<u>Points</u>	Daily Assignments (Quizzes, etc.)	100	Seven Major Lecture Exams.....	700	<u>Departmental Comprehensive Final Exam....</u>	<u>150</u>	Total	950	<p>Final grades will be awarded according to the following grading scale:</p> <p>860-950 pts = 91 - 100% = A 765-859 pts = 81 - 90% = B 670-764 pts = 71 - 80% = C 613-669 pts = 65 - 70% = D 0-612 pts = 0 - 65% = F</p>
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Daily Assignments (Quizzes, etc.)	100										
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<u>Departmental Comprehensive Final Exam....</u>	<u>150</u>										
Total	950										

To determine progress at any time: divide current points earned by points attempted, multiply by 100, then compare to the % in the Grading Scale, above.

$$\frac{\text{Points earned } 257}{\text{Points attempted } 300} \times 100 = .856 \times 100 = 85.6\%$$

Poor attendance may result in a lower or failing grade. See “**Attendance & Withdrawal Policy**”.

Rarely, a grade of “I” (incomplete) may be granted, but three conditions **must all** be met, student must:

- (1) Provide documented evidence of a family or medical emergency after W deadline,
 - (2) Be passing the course when an I grade is requested, and
 - (3) Submit all course requirements before midterm of the very next semester (summers included).
- Once an “I” grade is granted, failure to submit any requirement by the deadline will result in an F grade.

CORE COMPETENCIES

All courses approved for the general education core curriculum develop a student's critical thinking and/or communication skills. Students will demonstrate achievements by assessments on the departmental final exam and on testing developed by individual instructors.

This course develops critical thinking skills through instruction that emphasizes the understanding of the scientific disciplines of general biological principles. The student will be able to:

- apply standard scientific methods and interpret observations and data;
- make inferences justified by data and observations;
- explain relevance of findings to general biological principles, or expected results
- identify key assumptions of general biology

This course develops communication skills through instruction that emphasizes presentation of biological ideas discipline-specific, appropriate, and clear language. The student be able to:

- explain biological concepts using clear, appropriate, well-reasoned, and precise terminology in keeping with established professional usage;
- discuss relevant implications, and consequences, and uses for biological principles.

ATTENDANCE & WITHDRAWAL POLICY:

Before attending classes, you must meet all prerequisites and officially register for all courses. Prompt and regular attendance is your responsibility. You are responsible for all material covered and all assignments made in class. Any time you are absent from a class, laboratory or other scheduled events, it is your responsibility to make satisfactory arrangements for any make-up work permitted by the instructor.

An absence is defined as nonattendance for any reason, including illness, emergency or official leave. If you arrive late to class, you may not be allowed into the classroom and may be considered absent for that period. If you leave before the instructor dismisses class, you may also be considered absent. All class sessions are important. Any time you miss class you increase your risk of making a failing grade. For example, some departments or individual instructors will count your class participation as a substantial percentage of your grade. Of course, if you are not in class, you will not get the necessary points for your class participation.

If you quit coming or participating in the course and do not officially withdraw by the withdrawal date for each semester, you will receive a grade of F or U. Your instructor cannot assign a grade of W. If you receive financial aid or veterans' aid, your aid may be revised as a result of any changes in your course schedule.

SAFETY:

For your safety, immediately inform your instructor of all medical conditions that result in seizures, blackouts, etc. (e.g. from epilepsy, diabetes). This information will be confidential.

If required safety equipment is not brought to lab, then instructor may exclude student from lab for that day.

ACCOMMODATIONS FOR STUDENTS WITH SPECIAL NEEDS:

The College will make reasonable accommodations for persons with documented disabilities. Students should notify the Counselor for Students with Disabilities (located in Counseling and Career Development, Building 410, Room 210) and their instructors of any special needs. Notify instructors by the first day of classes, but accommodations cannot be granted until notification is received from the student's Counselor.

MAKE-UP TEST POLICY:

Only one make-up is permitted, regardless of reasons. If you are at risk of missing more than one test, then wait to take the course during a more favorable semester. Make-ups are refused, unless a student can document a serious condition that directly conflicts with the time of the test. Make-ups are at the instructor's convenience and may be in a different format than the test presented at the scheduled testing time. **A missed make-up gets a zero with no further make-ups allowed for the course.**

In unusual circumstances, a student may be allowed to take a major lecture test early. The format may be different than the test presented at the scheduled testing time.

There are no make-ups allowed for missed daily work.

ELECTRONIC COMMUNICATION DEVICES IN CLASSROOMS:

To minimize classroom disruptions and protect the integrity of test-taking situations, activated electronic communication devices such as pagers and telephones are generally not permitted in classrooms at Trident Technical College. The only exception to this policy will be for on-call emergency personnel (police, fire, EMS), who will be required to notify their classroom instructor of their need for such devices at the beginning of the term and provide documentation verifying their occupation. However, on-call emergency personnel may not leave a testing situation, communicate by electronic means and return to complete an examination. In these cases, instructors should make arrangements for re-testing.

INSTRUCTOR AVAILABILITY:

Your instructor is available to you outside of class for academic assistance. Full-time faculty maintain and post regularly scheduled office hours. Part-time faculty are accessible in a variety of ways, which may include conferences before and after class or by appointment, telephone conferences, and E-mail. The phone number for contacting your instructor is provided on your syllabus addendum or cover sheet.

Chapter	Lecture Topic	Pages
Chapter 1	Introduction: Biology Today	2 – 18
Chapter 2	Essential Chemistry for Biology	20 – 32
Chapter 3	The Molecules of Life	35 – 51
Chapter 4	A Tour of the Cell	54 – 69
Chapter 5	The Working Cell	72 – 85
Chapter 6	Cellular Respiration: Obtaining Energy from Food	88 – 100
Chapter 8	Cellular Respiration: Cells from cells	120 – 140
Chapter 10	The Structure and Function of DNA	171 – 194
Chapter 21	Unifying Concepts of Animal Structure and Function	464 – 482
Chapter 22	Nutrition and Digestion	485 – 501
Chapter 23	Circulation and Respiration	504 - 524
Chapter 24	The Body's Defenses	527 – 541
Chapter 25	Hormones	544 – 556
Chapter 26	Reproduction and Development	559 – 581
Chapter 27	Nervous, Sensory, and Motor Systems	584 – 613
FINAL EXAM		