Midland College Syllabus
2018 - 2019
BIOL 1408
Introduction to Biology I (Non-Majors)
Lecture
4 Semester Credit Hours
(3 Lecture/3 Lab)
Core Curriculum Course

Instructor Information:
Instructor: Click here to enter text. Office:
Phone: Click here to enter text. Email:
Office Hours:

Notice: Students MUST actively participate by completing an academic assignment required by the instructor by the official census date. Students who do not actively participate in an academically-related activity may be reported as never attended and dropped from the course.

Course Description:
Fundamental principles of living organisms including physical and chemical properties of life, organization, and function. Concepts of reproduction, genetics and the scientific method are included. This course is suitable as a required lab science for non-biology majors and may not be substituted for BIOL 1406. Fundamental principles of living organisms including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of reproduction, genetics, ecology, and the scientific method are included. Prerequisite: TSI complete in Reading.

Core Objectives:
This course fulfills four hours of the Life and Physical Science requirement in the Midland College Core Curriculum. The Core Curriculum is a set of courses that provide students with a foundation of knowledge, skills and educational experiences that are essential for all learning. The Core Curriculum is available in the Midland College Catalog. As part of the core, this course addresses the following four objectives:

Critical thinking skills – Students will demonstrate critical thinking by analyzing and applying appropriate terminology and knowledge to interpret problems involving chemistry of the cell, movement across membranes, cellular processes, cellular reproduction, genetics, and evolution.

Communication skills – Students will demonstrate communication skills in written, oral, and visual form within the classroom setting through instructor posed questions, collaborative peer assignments, and exams.
Empirical and Quantitative skills – Students will demonstrate empirical and quantitative skills by analyzing applied examples of biology through course assignments and exams.

Teamwork – Students will demonstrate teamwork skills by functioning as collaborative and cooperative small groups to answer instructor posed questions and/or complete assignments.

Text, References and Supplies:
Computer: Access to a working computer throughout the course with the ability to access the internet and Canvas.

Student Learning Outcomes:
Upon completion of this course the student will
1. Distinguish between prokaryotic, eukaryotic, plant and animal cells, and identify major cell structures.
2. Identify stages of the cell cycle, mitosis (plant and animal), and meiosis.
3. Interpret results from cell physiology experiments involving movement across membranes, enzymes, photosynthesis, and cellular respiration.
4. Apply genetic principles to predict the outcome of genetic crosses and statistically analyze results.
5. Describe karyotyping, pedigrees, and biotechnology and provide an example of the uses of each.
6. Identify parts of a DNA molecule, and describe replication, transcription, and translation.
7. Analyze evidence for evolution and natural selection.

Student Contributions, Responsibilities and Class Policies:
Students will be expected to comply with the policies outlined in the Midland College student handbook. Instructor policies concerning attendance and academic behavior are consistent with the policies in the student handbook. Regular attendance is required to do well in this class. Lecture and lab are considered as one class, so any absences in both sections will be combined in order to determine overall absences.

Attendance Policy:
It is the responsibility of the students to know the policies and procedures associated with absences. These policies are set by instructors. Excused absences may include, but are not limited to, illness, severe weather, and death in the family. Instructors will determine whether or not an absence is excused. Please visit the Midland College Catalog.

Students will be evaluated based on the results of examinations given throughout the semester. Your lecture instructor will inform you on the first day of class as to
the tentative dates and content for each exam. Students are expected to complete each exam. Your instructor will inform you on the first day of class as to make-up procedures for missed exams and any exemption procedures if they apply (See Instructor Handout).

**Withdrawal Policy:**
Students who have enrolled in a Texas public institution of higher education as a first-time freshman in fall 2007 or later are permitted to drop no more than six courses during the entire undergraduate career. This limit includes all transfer work taken at a Texas institution of higher education and to second baccalaureate degrees. This statute was enacted by the State of Texas in spring 2007 (Texas Education Code 51.907). Any course that a student drops after Census Day is counted toward the six-course limit if “(1) the student was able to drop the course without receiving a grade or incurring an academic penalty; (2) the student’s transcript indicates or will indicate that the student was enrolled in the course; and (3) the student is not dropping the course in order to withdraw from the institution.” Please visit the Midland College Catalog

**Scholastic Dishonesty:**
Midland College does not tolerate scholastic dishonesty or academic misconduct in any form. Please read the MC Student Handbook on this subject. Please visit the Midland College Catalog

**Evaluation of Students:**
Lecture ................................................................................................................. 70%
The lecture grade constitutes 70% of the course grade. Grades will be assessed at the instructors’ discretion within the following parameters:

**Assignments** (may include, but not limited to homework, reports, quizzes, or other activities) 0-30%

**Exams:** 70-100%

Laboratory (see separate lab syllabus) ................................................................. 30%

**Course Schedule:**
This class meets for 3 lecture hours per week and 3 laboratory hours per week. For a tentative schedule of the class meetings and laboratory meetings, please refer to the schedule distributed to each student on the first class meeting (See Instructor Handout).

**ADA Statement:**
Midland College provides services for students with disabilities through Student Services. In order to receive accommodations, students must place documentation on file with the Counselor/Disability Specialist. Students with disabilities should notify Midland College prior to the beginning of each semester. Student Services
will provide each student with a letter outlining any reasonable accommodations. The student must present the letter to the instructor at the beginning of the semester.

Midland College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following individuals have been designated to handle inquiries regarding the non-discrimination policies: **Tana Baker, Title IX Coordinator/Compliance Officer, 3600 N. Garfield, SSC 242, Midland, TX 79705, (432) 685-4781, tbaker@midland.edu; Natasha Morgan, Director Human Resources/Payroll, 3600 N. Garfield, PAD 104, Midland, TX 79705, (432) 685-4534, nmorgan@midland.edu.** For further information on notice of non-discrimination, visit [http://wdcrobcolp01.ed.gov/CFAPPS/OCR/contactus.cfm](http://wdcrobcolp01.ed.gov/CFAPPS/OCR/contactus.cfm) or call 1 (800) 421-3481.

**Spanish**
Midland College no discrimina por motivos de raza, color, nacionalidad, sexo, discapacidad, o edad en sus programas o actividades. Las siguientes personas han sido designadas para responder a cualquier pregunta o duda sobre estas políticas no discriminatorias: **Tana Baker, Title IX Coordinator/Compliance Officer, 3600 N. Garfield, SSC 242, Midland, TX 79705, (432) 685-4781, tbaker@midland.edu; Natasha Morgan, Director Human Resources/Payroll, 3600 N. Garfield, PAD 104, Midland, TX 79705, (432) 685-4534, nmorgan@midland.edu.** Para más información sobre estas políticas no discriminatorias, visite [http://wdcrobcolp01.ed.gov/CFAPPS/OCR/contactus.cfm](http://wdcrobcolp01.ed.gov/CFAPPS/OCR/contactus.cfm) o llame al 1 (800) 421-3481.

**Math/Science Division Information:**
- **Division Dean:** Dr. Margaret Wade 125 AHSF 432-685-4615
- **Department Chair:** Dr. Miranda Poage 155 FSB 432-685-6754
- **Division Secretary:** Ms. Carol Pritchard 124 AHSF 432-685-6404
- **Division Clerk:** Ms. Sara Anderson 124 AHSF 432-685-6896

**Contents**
- **Midland College Syllabus**
- **Instructor Information:**
  - Instructor ................................................................. 1
  - Phone ........................................................................ 1
  - Office Hours: ............................................................ 1
- **Notice:** ..................................................................... 1
- **Course Description:** .................................................. 1
- **Core Objectives:** ...................................................... 1
  - Critical thinking skills ............................................... 1