

McLennan
C O M M U N I T Y
C O L L E G E

WACO, TEXAS

COURSE SYLLABUS
AND
INSTRUCTOR PLAN

Biology Non-Science Majors I

Biology 1408-01

Thomas Justice3

NOTE: This is an 16-week course.

COVID 19 Notice:

McLennan Community College is committed to providing you with every resource you need to reach your academic goals including your safety. We will continue to monitor the evolving situation with COVID 19 and adjust our safety guidelines to make sure we offer a safe environment for you and our faculty. Please make sure to consult your faculty and the MCC website at <https://www.mclennan.edu/crisis-management/coronavirus-updates/index.html> on any changes to these guidelines.

AN EQUAL OPPORTUNITY INSTITUTION

Spring 2022

Biology Non-
Science Majors I
Biology 1408-01

Course Description:

Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction.

Prerequisites and/or Corequisites:

None

Course Notes and Instructor Recommendations:

Notes and presentation materials are available on the course BrightSpace page

Instructor Information:

Instructor Name: Thomas Justice

MCC Email: tjustice@mclennan.edu

Office Phone Number: 254-299-8175

Office Location: SB 123

Office/Teacher Conference Hours: via email or appointment

Other Instruction Information:

Required Text & Materials:

None, all required materials are posted on the course BrightSpace page. A link for a free OpenStax book is provided but the book is not required.

MCC Bookstore Website: <http://www.mclennan.edu/bookstore/>

Methods of Teaching and Learning:

PowerPoint lecture presentations with topic notes are available for each chapter on the course Brightspace page. Labs that use investigative techniques to analyze data and formal written lab reports are also required. Quizzes for each chapter are used to assess learning and graded based upon completion within the prescribed time.

Course Objectives and/or Competencies:

Upon successful completion of this course, students 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.

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4. Apply genetic principles to predict the outcome of genetic crosses and statistically analyze
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.
8. Apply scientific reasoning to investigate questions, and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data.
9. Use critical thinking and scientific problem solving to make informed decisions in the laboratory.
10. Communicate effectively the results of scientific investigations.
11. Distinguish between prokaryotic, eukaryotic, plant and animal cells, and identify major cell structures.
12. Identify stages of the cell cycle, mitosis (plant and animal), and meiosis.
13. Interpret results from cell physiology experiments involving movement across membranes, enzymes, photosynthesis, and cellular respiration.
14. Apply genetic principles to predict the outcome of genetic crosses and statistically analyze results.
15. Identify the importance of karyotypes, pedigrees, and biotechnology.
16. Identify parts of a DNA molecule, and describe replication, transcription, and translation.
17. Analyze evidence for evolution and natural selection.

Course Outline or Schedule:

A detailed printable version of this calendar which includes testing dates and due dates of all assignments is available on the course Brightspace page. A detailed list of chapter objectives is also available on the course Brightspace page. Any changes to this schedule will be announced via email and a new calendar will be posted to Brightspace.

Jan 10-25 Topics 1-3 commonality of life, chemistry of water, organic compounds
Test one due Jan 25.

Jan 25-Feb 18 Topics 4-6 cell membranes, cell types and organelles, energy and enzymes
Test two due Feb 18

Feb 18-March 25 Topics 7-10 photosynthesis, respiration, mitosis, meiosis
Test three due March 25

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March 25-April 15 Topics 11-12 DNA, protein synthesis
Test four due April 15

April 15-May 2 Topics 13-14 heredity and evolution
Test five (final) due May 2

Course Grading Information:

Five tests make up 45% of the course grade.

Lab assignments make up 40% of the course grade. Topic quizzes make up 15% of the course

Grading 100-90=A 89-80=B 79-70=C 69-60=D <60=F

Any student that is caught cheating on an assignment will receive a grade of zero in that assignment. A second offense will result in being reported to MCC for disciplinary action.

Late Work, Attendance, and Make Up Work Policies:

1- Unless otherwise stated, all assignments must be word processed.

2- All assignments are due by the deadline posted in the course calendar. All assignments are to be turned in as attachments using the proper email protocol discussed in the orientation section of the course web site. School approved exceptions to the deadline are posted below.

3- To be excused from the deadline, you MUST meet the school criteria for making up missed work- Students will be permitted to make up class work and assignments missed due to absences caused by (1) authorized participation in official College functions, (2) personal illness, (3) an illness or a death in the immediate family, or (4) the observance of a religious holy day. Also, the instructor has the prerogative of determining whether a student may make up work missed due to absences for other reasons. It is the student's responsibility to inform the instructor of the reason for an absence and to do so in a timely fashion. I MAY require written proof of such excused absences

Student Behavioral Expectations or Conduct Policy:

“Students are expected to maintain classroom decorum that includes respect for other students and the instructor, prompt and regular attendance, and an attitude that seeks to take full advantage of the education opportunity.”

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[Click Here for the MCC Attendance/Absences Policy](https://www.mclennan.edu/highlander-guide/policies.html)

(<https://www.mclennan.edu/highlander-guide/policies.html>)

Click on the link above for the college policies on attendance and absences. School policy states that a student that misses 25% of scheduled meetings before the last day for student initiated withdrawals will be withdrawn. In a 16 week course, if a student misses 8 schedule classes before the last day for student initiated withdrawals the student will be withdrawn from the course.

McLennan

C O M M U N I T Y

COLLEGE

ACADEMIC RESOURCES/POLICIES

Accommodations/ADA Statement:

Any student who is a qualified individual with a disability may request reasonable accommodations to assist with providing equal access to educational opportunities. Students should contact the Accommodations Coordinator as soon as possible to provide documentation and make necessary arrangements. Once that process is completed, appropriate verification will be provided to the student and instructor. Please note that instructors are not required to provide classroom accommodations to students until appropriate verification has been provided by the Accommodations Coordinator. For additional information, please visit www.mclennan.edu/disability.

Students with questions or who require assistance with disabilities involving physical, classroom, or testing accommodations should contact:

disabilities@mclennan.edu

254-299-8122

Room 319, Student Services Center

Title IX:

We care about your safety, and value an environment where students and instructors can successfully teach and learn together. If you or someone you know experiences unwelcomed behavior, we are here to help. Individuals who would like to report an incident of sexual misconduct are encouraged to immediately contact the Title IX Coordinator at titleix@mclennan.edu or by calling Dr. Drew Canham (Chief of Staff for Diversity, Equity & Inclusion/Title IX) at (254) 299-8645. Individuals also may contact the MCC Police Department at 299-8911 or the MCC Student Counseling Center at MCC at (254) 299-8210. The MCC Student Counseling Center is a confidential resource for students. Any student or employee may report sexual harassment anonymously by visiting <http://www.lighthouse-services.com/mclennan/>.

Go to McLennan's Title IX webpage at www.mclennan.edu/titleix/. It contains more information about definitions, reporting, confidentiality, resources, and what to do if you or someone you know is a victim of sexual misconduct, gender-based violence or the crimes of rape, acquaintance rape, sexual assault, sexual harassment, stalking, dating violence, or domestic violence.

Student Support/Resources:

MCC provides a variety of services to support student success in the classroom and in your academic pursuits to include counseling, tutors, technology help desk, advising, financial aid, etc. A listing of these and the many other services available to our students is available at <http://www.mclennan.edu/campus-resource-guide/>

College personnel recognize that food, housing, and transportation are essential for student success. If you are having trouble securing these resources or want to explore strategies for balancing life and school, we encourage you to contact a Success Coach by calling (254) 299-8226 or emailing SuccessCoach@mclennan.edu. Students may visit the Completion Center Monday-Friday from 8 a.m.-5 p.m. to schedule a meeting with a Success Coach and receive additional resources and support to help reach academic and personal goals. Paulanne's Pantry (MCC's food pantry) provides free food by appointment to students, faculty and staff based on household size. Text (254) 870-7573 to schedule a pantry appointment. The Completion Center and pantry are located on the Second Floor of the Student Services Center (SSC).

MCC Foundation Emergency Grant Fund:

Unanticipated expenses, such as car repairs, medical bills, housing, or job loss can affect us all. Should an unexpected expense arise, the MCC Foundation has an emergency grant fund that may be able to assist you. Please go to <https://www.mclennan.edu/foundation/scholarships-and-resources/emergencygrant.html> to find out more about the emergency grant. The application can be found at https://www.mclennan.edu/foundation/docs/Emergency_Grant_Application.pdf.

MCC Academic Integrity Statement:

Go to www.mclennan.edu/academic-integrity for information about academic integrity, dishonesty, and cheating.

Minimum System Requirements to Utilize MCC's D2L|Brightspace:

Go to <https://www.mclennan.edu/center-for-teaching-and-learning/Faculty-and-Staff-Commons/requirements.html> for information on the minimum system requirements needed to reliably access your courses in MCC's D2L|Brightspace learning management system.

Minimum Technical Skills:

Students should have basic computer skills, knowledge of word processing software, and a basic understanding of how to use search engines and common web browsers.

Backup Plan for Technology:

In the event MCC's technology systems are down, you will be notified via your MCC student email address. Please note that all assignments and activities will be due on the date specified in the Instructor Plan, unless otherwise noted by the instructor.

Email Policy:

McLennan Community College would like to remind you of the policy (<http://www.mclennan.edu/employees/policy-manual/docs/E-XXXI-B.pdf>) regarding college email. All students, faculty, and staff are encouraged to use their McLennan email addresses when conducting college business.

A student's McLennan email address is the preferred email address that college employees should use for official college information or business. Students are expected to read and, if needed, respond in a timely manner to college emails.

Instructional Uses of Email:

Faculty members can determine classroom use of email or electronic communications. Faculty should expect and encourage students to check the college email on a regular basis. Faculty should inform students in the course syllabus if another communication method is to be used and of any special or unusual expectations for electronic communications.

If a faculty member prefers not to communicate by email with their students, it should be reflected in the course syllabus and information should be provided for the preferred form of communication.

Email on Mobile Devices:

The College recommends that you set up your mobile device to receive McLennan emails. If you need assistance with set-up, you may email Helpdesk@mclennan.edu for help.

Forwarding Emails:

You may forward emails that come to your McLennan address to alternate email addresses; however, the College will not be held responsible for emails forwarded to an alternate address that may be lost or placed in junk or spam filters.

Disclaimer:

The resources and policies listed above are merely for informational purposes and are subject to change without notice or obligation. The College reserves the right to change policies and other requirements in compliance with State and Federal laws. The provisions of this document do not constitute a contract.