

WACO, TEXAS

AND INSTRUCTOR PLAN

Undergraduate T.I.D.E.S. Coarl Reef Research

BIOL 2389. T001; .T002; .T003

Stephanie Randell

Dr. Stephanie Lockwood

Dr. Traesha Robertson

NOTE: This is a Face-to-Face course.

COURSE NUMBER & SECTION NUMBER

Course Description:

Biology 2389.T001 - Oceanography and Marine Biology

This course is a 3-hour credit course. and **part of a 6-hour, linked course sequence** Students are introduced to oceanography; marine biology; including coral reef ecology, coral biology, zooplankton, marine algae, coral disease, common reef organisms; and marine research techniques. **The course is TBA** and also meets for traditional class meetings on Thursday evenings from **6 to 7:20** from **01/11/24 to 05/18/24**.

Enrollment approval is based on faculty recommendation and selection. The recommendation forms are available from Stephanie Randell (SB 209; srandell@mclennan.edu). These forms must be completed either by Professor Randell, Dr. Lockwood, Dr. Shannon Hill, <u>or</u> by two other science faculty who are familiar with the student's work. Please contact Lindsey Packett at 254-299-8168 to register after receiving approval from Stephanie Randell to enroll.

Biology 2389.T002 - Caribbean Coral Reef Research - New Student Researchers

This course is a 3-hour credit course and part of a 6-hour, linked course sequence. Students must be co-registered in Oceanography and Marine Biology. The course will guide students in scientific research from literature review through the scientific submission and presentation process. Students work in teams to develop novel research projects to conduct in Roatan, Bay Islands, Honduras. The course is TBA and also meets for traditional class meetings on Thursday evenings from 7:30-8:55pm from 01/11/24 to 05/18/24.

<u>Biology 2389.T003 – For returning TIDEs researchers</u> or for those who have completed a research proposal. All aspects of this course include those described for Biol 2389.T001 and .T002. The course are TBA but also **meet 6-8:55 pm on Thursdays from Jan 11 – May 9, 2024**.

The courses will guide students in scientific research from literature review through the scientific submission and presentation process. Students work in teams to develop novel research projects that they will conduct in Roatan, Bay Islands, Honduras.

The courses are TBA but also meet 6-8:55 pm on Thursdays from Jan 11 – May 9, 2024. Field research will be conducted from 1/11/24 to 5/18/24 at the Roatan Institute for Marine

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Sciences in Roatan, Bay Islands, Honduras. On return from Roatan, the class will meet for a **"finishing boot camp"** consisting of statistical analysis, scientific writing, editing, and poster design from **Monday through Thursday**, 5/20/24 – 5/23/24, from 9:00 am - 4:00 pm. Students will present their research in poster sessions at MCC Scholar Day in fall 2024 and may be invited to submit their research for presentation at conferences and colloquia in fall 2024 and spring 2025.

All aspects of research development and SCUBA certification must be successfully met to conduct the field research portion of the class. Travel to and from Waco – Dallas (DFW) - Roatan (RTB) will be by air. A fee, in addition to tuition and fees, is paid to cover many of the expenses of the trip. The fee may be paid with financial aid, including Pell grants, student loans, and scholarships. The fee includes transportation to and from Waco; dive insurance; 1-3 dives per full day in Honduras; professional lectures; boat transports to research sites with captain and dive master, 7 nights lodging at Anthony's Key Resort (AKR) 2-8 students per dorm or cabin; meals in Honduras: dinner 05/11/24; 3 meals/day 05/12/24 – 05/17/24; and breakfast 05/18/24; Dolphin instruction and encounter; and tips for AKR staff. Not included: tuition, passport fees, baggage fees, some TIDES promotional items like hats and tee shirts, meals/beverages in transit, medical evaluation for trip and SCUBA and/or for prescription evaluations or needs, professional photos or videos, souvenirs, medical costs, notary fees, textbooks, costs associated with acquiring professional journal articles, and any additional travel costs or fees associated with attaining Open Water SCUBA certification and other advanced SCUBA certifications.

Fees: Students will have the option of conducting their research through one of three options:

<u>1.New MCC TIDES researchers</u> (\$3999.00) – Includes SSI SCUBA Open Water certification course. The courses are to be completed online in January. Includes classroom and pool instruction and course certification at the Blue Lagoon, Huntsville, TX.

2. Returning MCC TIDES researcher (\$3850.00)

<u>3. Collaborating Institution - New Researcher</u> (\$4050.00) Includes SSI SCUBA Open Water certification course. The courses are to be completed online in January. Includes classroom and pool instruction and course certification at the Blue Lagoon, Huntsville.

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OPEN WATER SCUBA CERTIFICATION:

- **I. SWIM TEST**: All <u>researchers</u> require a <u>swim assessment</u> at the Waco Family YMCA on **January 19** from 1:00 3:00pm. The online portion of the course must be completed by the end of January.
- **II.** The **classroom** (MCC S214) and **pool** portions (Waco family YMCA) of the course will be conducted:

Feb: 23 (1-4 CLASS; 6-9:00pm POOL)

24 (9:00 am—12:00pm CLASS; 1-5:00 POOL) **25** (9:00am- 12:00pm CLASS; 1-4:00 POOL)

- III. OPEN WATER CERTIFICATION: Open Water Certification is April (20-21) at the Blue Lagoon in Huntsville, Texas.
- IV. ***Open Water Certification must be attained by May 10, 2024.

Prerequisites and/or Corequisites:

Completion with a B or better in one of these courses: BIOL 1406, 1407, 1411, 1413, and /or consent of the professor.

Course Notes and Instructor Recommendations:

Signed and notarized waivers are required for enrollment in this course.

Students will follow policies, protocol, and class regulations as stated in signed waivers and forms and any adaptations to the policies made during the course.

Students will be required to participate in all assigned activities in Honduras. Students are required to be present at all meals and participate in all activities, no exceptions.

Students will collect data for their research during the Honduras portion of the course. Prior to the Honduras portion of the trip, the student will collaborate with research team members to develop a need-driven, self-directed research project. In order to conduct their research in Honduras, the student must have successfully met deadlines and completion of the

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Introduction, Methods and Materials, comprised a thorough Materials list for their research project, and <u>successfully</u> tested out (minimum score of 80 achieved) for the research skills and competencies necessary to conduct their scientific research project; as well as have successfully obtained SCUBA Open Water certification. On return from the field research, students <u>must attend everyday</u> of a "Finishing Bootcamp". The student will statistically analyze their data, write an abstract (less than 250 words), and design a scientific poster. Students are required to present their posters at one MCC Scholar Day and are strongly encouraged to submit their work for presentation at professional conferences.

Instructor Information:

Stephanie Randell

MCC E-mail: srandell@mclennan.edu
Office Phone Number: 254-299-8183

Office Location: S209

Office/Teacher Conference Hours: M/W 10:03-11:00 am; 2 -2:30 pm; Tues 11:00-noon; or by appointment/Zoom appointment. You may come by my office during any scheduled office hour!

Instructor: Dr. Stephanie Lockwood

Email: Stephanie.Lockwood@ttu.edu

Texas Tech University - Waco

Office Phone: 806 834-0236

Office Location: **FOB 217** – MCC Campus

Office Hours: By appointment

Instructor: Dr. Traesha Robertson

College of Coastal Georgia

Brunswick, Georgia

Office Location: Jones 133, CCGA, Georgia

E-mail: trobertson@ccga.edu
Office Phone: 912 279-5876

Office hours (EST): By appointment

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Required Text & Materials:

Professional journal articles

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

Methods of Teaching and Learning:

Lectures, Zoom lectures and mentoring sessions; class discussion, field and laboratory research, exams, lab/field practicals, Facebook/Brightspace group-site reading and posting, literature searches, research skills and competency testing, scientific research: experimental design, scientific writing, field techniques, data recording and entry, scientific analysis, and poster design; peer editing, peer evaluations, participation in the scientific community, reading assignments from professional journals and former student research, and poster sessions

Course Objectives/Competencies/Outcomes

- 1. The student will conduct original scientific research within the guidelines of the scientific method.
- 2. The student will conduct a literature search to develop a testable hypothesis and testing procedure prior to their departure for Roatan.
- 3. The student will conduct scientific experimentation/observation using current scientific methods and/or technologies.
- 4. The student will use scientific parameters to analyze data and form conclusions.
- 5. The student will communicate their research in a scientific paper or poster and submit to professional conferences to disseminate their research.
- 6. The student will collaborate within the scientific community to develop, test, analyze, and communicate the results of their study.
- 7. The student will participate in scientific teamwork and exhibit scientific courtesy.
- 8. The student will describe the physical characteristics of marine environments.

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- 9. The student will identify Caribbean coral reef species.
- 10. The student will describe the primary components and organization of Caribbean coral reef communities and current major threats to coral reefs.
- 11. The student will describe differences between Honduran and American cultures and explain how aspects of those cultures uniquely affect threats to and protection of Caribbean coral reef ecosystems.

Course Attendance/Participation Guidelines:

Researchers must notify professors if an absence will occur. Only acceptable and unovoidable absences are allowed. The swim test cannot be missed. Absences will affect the researchers ability to scientifically conduct research and could prevent travel to Honduras.

If a student is not in attendance in accordance with the policies/guidelines of the class as outlined in the course syllabus as of the course census date, faculty are required to drop students from their class roster prior to certifying the respective class roster. A student's financial aid will be re-evaluated accordingly and the student will only receive funding for those courses attended as of the course census date.

Before the 60% point of the semester, a student who is absent for 25% or more of a face-to-face or blended course or who misses 25% or more of assigned work for an online course will be withdrawn from the course with a grade of W. A student may also request to be withdrawn with a grade of W before the 60% point of the semester. After the 60% point of the semester, the student may request to be withdrawn if the student is passing, or be assigned the final grade earned at the end of the semester after grades have been updated to reflect missing work.

Course Outline or Schedule:

Jan 11: Introduction; Meet and Greet and Zoom with Traesha Robertson and Annie Mowry; Q and A; Syllabus Review; Research Team information

<u>Lecture</u>: Basic/Island Oceanography (1.5) – **Stephanie Lockwood**

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<u>Jan 18</u> :	RETURNERS: Research synopsis and needs Literature Search/Proposal Writing – Stephanie Lockwood Coral Ecology/Algae/Phase Shift/Reef Issues (1.5) – Stephanie Randell AGGRA – Rapid Reef Assessment
<u>Jan 19</u>	(Friday) Swim Test – Waco Family YMCA 1:00- 3:00pm
<u>Jan 25</u>	Coral Identification and coral Diseases (1.5) – Stephanie Lockwood Fish Ecology and Identification (1.0) – Stephanie Randell Groups – formations and informal meetings
<u>Feb 1</u>	Online SCUBA Course – Completed BEFORE class! Reef Invertebrates (1.5) – Stephanie Lockwood Zooplankton/Phytoplankton/Methodology – Traesha Robertson
<u>Feb 08</u>	Research Methods: Transects and Quadrants- Stephanie Lockwood imageJ (0.5) – Ethan Villa Population and Behavior studies- Stephanie Randell Research Methods: Roving Diver Technique (RDT) and
Feb 15	Randell-Robertson Marine Survey Technique (RRMST) Novel Research Project Design – start Major Oceanography, Marine Biology, Coral Reef Ecology Exam – Next class!
TUD IJ	Novel Research Project Design Tee-shirt design

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SCUBA certification class schedule - Friday Feb 23 - Sunday Feb 25

Feb: 23 1-4:00pm S214

6-9:00pm POOL

24 9:00 am—12:00pm S214

1-5:00 POOL

25 9:00am- 12:00pm S214

1-4:00 POOL

Feb 22: **Major Exam - from all lectures!**

No identification, but includes species ecology!

Final Tee Shirt Designs

Research study design/ notebook checks

Tentative Project Ideas due

Feb 29 Literature search checks/Research study design/ notebook checks

Introduction Check

Research Groups: practice research skills and techniques

March 4-8 ***MCC Spring Break***

March

Literature search checks/Research study design/ notebook checks

Research Groups: practice research skills and techniques

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21 <u>Student folders due</u> (forms, copies of passport, etc.)

All forms (reduced in size) and medical releases due for trip and compiled by each student into a folder and submitted by this date

Research study design – Final Titles and Methods approved

Introduction edits; Materials checked

Research Groups: practice research skills and techniques

28 Spreadsheet and Field Data Sheet development: Annie Mowry??

Research groups with Annie Mowry??

Final Materials List Due

Literature search checks/Research study design/ notebook checks

Research Groups: practice research skills and techniques

April 4 DUE TODAY: Introduction, M&M, Literature Cited (Well-edited drafts)

Waterproof/ Field Data sheet number due!

Spreadsheet and Field Data Sheet development: Research groups with statistician

Research Groups: practice research skills and techniques

Determine room designations and shower schedule

11 FINAL Research Proposals due!

Data Sheet/spreadsheet development

Research Groups: practice research skills and techniques

18 ***Personalized SKILLS Tests!***

Develop/Finalize: Spreadsheets and Field Data Sheets

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SSI - Open Water Certification - Blue Lagoon. Huntsville, TX

April 20-21: Sat. April 20 10:00am -12:00

Sun. April 21 9:30am - 1:00pm

Tank rental about ~10.00 each

Entrance fee ~35.00/person

25 Dive Computers; Dive logs- Stephanie Lockwood

Packing; review polices, travel and health updates/info – **Stephanie Randell**

Data sheets due for printing; Number of Field Data sheets needed – Final Check

Pack Final Equipment - **Returners schedule time to help pack** with Research Assistants

By Appointment research equipment check-out: with Research Assistant

No later than Friday, 5/03 - noon

May 2: Review: Etiquette, photo etiquette, safety, etc.

Distribute Tee Shirts

Pack final equipment

Distribute and Check Printed Data Sheets

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09 Distribute Tee Shirts/hats

Boat policies - Stephanie Lockwood

Review: Etiquette, photo etiquette, safety, etc.

May 11-18 Field Research – Roatan, Bay Islands, Honduras

May 19 Sunday (from home) - Finalize Data Entry

May 20-24 (Monday - Thursday.) – Required Bootcamp 9:00am - 4:00pm

Each day missed = 1 letter grade reduction

Statistical Analysis: TBA

Via Zoom: Dr. Traesha Robertson

Scientific Editing and Writing/Peer edits

Abstracts (less than 250 words)

For final grade submit Directly to Professor Randell:

____Final Poster; 250 word abstract with Title, Byline, and Affiliation; excel spread sheets; copies of field data sheets; and ALL field photos

Fall 2024: MCC Scholar Day

Submit: TAS, TTABS, and other spring scientific conferences

Spring 2025: Present: Scientific conferences

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Course Grading Information:

Evaluation methods:

1). Scientific and professional behavior: - 20% of final grade

Follows policies, procedures, and scientific protocol

Meets deadlines/follows timeline/on time and participates in all activities, meetings, meals, departures, etc.

Attends classes, meetings, scheduled functions, meals, peer edits and reviews

Shows respect for different cultures, the environment, and people they encounter

Readily engages in scientific teamwork, collaboration, and displays scientific courtesy and respect

Exhibits an attitude which enhances the scientific, collaborative, explorative, and social aspects of the course

Adapts to edits and mentor suggestions

Follows research and scientific etiquette and guidelines

2). Exams: - 20% of final grade

Exam I: Basic Oceanography, Marine Biology; reef ecology; reef

organisms; Research techniques (All notes!) Reef Ecology,

Roatan Issues, Research techniques (All class notes)

Exam II: **Personalized exams:** research skills and competencies for project;

Basic organismal ID; corals; inverts; algae, fish

3). Research Project – 60%

Literature search, adaptability, edits, field research, analysis, deadlines, guidelines, scientific writing, abstract, class and research notebook, poster design, peer edits, and **poster presentation (not optional!)**

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Late Work and Make Up Work Policies:

All late work will be <u>deducted 20 points</u> if not received at the <u>beginning of the class</u> in which they are due. No late papers will be accepted after one day; <u>unless otherwise agreed upon in</u> **advance.**

Make-up policies

When a student enrolls in the course, the student agrees to take the **exams when they are scheduled**, unless previous arrangements have been made. The date of the exam may change; therefore, it is the student's responsibility to keep informed of these changes. Make-ups will not be given unless they are excused for the time the exam is given.

The student is responsible for all material assigned for this class whether they are present or absent from class.

There will be no make-ups for activities and research in Honduras, bootcamp, or for the poster session.

Student Behavioral Expectations or Conduct Policy:

The student will follow behavioral regulations and guidelines as stated in the signed waivers and forms, and which are consistent with collegiate and professional behaviors.

In addition:

The students should exhibit a helpful and collegial attitude.

Complaining and whining should be left at home.

Students should maintain standards of hygiene and cleanliness.

The student will **participate and** be **on time** for all activities and meals

Students will display respect for members of the research team and all people encountered.

Student will respect the difference in international cultures.

<u>Students will report</u> any and all accidents, inconsistency, dishonesty, and <u>medical and/or safety</u> or other <u>concerns</u> **immediately** to a professor, research assistant, or sponsor.

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Students will follow guidelines and protocol for coral reef research and ecosystem preservation.

Students will follow the laws of Honduras, as well as guidelines and policies of RIMS, AKR, and The Sandy Bay Marine Park.

Collegiate Behavior: Student behaviors already outlined by course or MCC travel regulations will be adhered to as stated in signed forms. In addition, any student engaging in any activity which interferes with the learning environment of the classroom, activities, and/or field research; or which conflicts with course regulations and/or requirements; and/or which may affect the safety of others or reflect poorly on MCC may be removed from the educational environment. This may include removal from the course and is up to the discretion of the research faculty. Consequences of removal will be reflected in the course grade. A student being so removed will not receive a course fee refund. If interfering behavior occurs in the classroom portion of the course, the student may be barred from participating in the field research and thus the trip. If interfering behavior occurs during the field portion of the course, the student may be required to leave within 24 hours. The student will be required to make travel arrangements at their own expense within 24 hours of that decision as outlined in student conduct forms.

Click Here for the MCC Attendance/Absences Policy

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

Click on the link above for the college policies on attendance and absences. Your instructor may have additional guidelines specific to this course.



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. Claudette Jackson, (Accommodations/Title IX) at (254) 299-8465. MCC employees are mandatory reporters and must report incidents immediately to the Title IX Coordinator. Individuals may also contact the MCC Police Department at (254) 299-8911 or the MCC Student Counseling Center at (254) 299-8210. The MCC Student Counseling Center is a confidential resource for students. Any student may report sexual harassment anonymously by visiting http://www.lighthouse-services.com/mclennan/

Additionally, Title IX provides rights and protections for pregnant and newly parenting students. 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-quide/

Academic Support and Tutoring is here to help students with all their course-related needs. Specializing in one-on-one tutoring, developing study skills, and effectively writing essays. Academic Support and Tutoring can be found in the Library and main floor of the Learning Commons. This service is available to students in person or through Zoom. You can contact the Academic Support and Tutoring team via Zoom or email (ast@mclennan.edu) by going to our website (https://www.mclennan.edu/academic-support-and-tutoring/)

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 either MCC CREW – Campus Resources Education Web by calling (254) 299-8561 or by emailing crew@mclennan.edu or a Success Coach by calling (254) 299-8226 or emailing success@mclennan.edu.

Paulanne's Pantry (MCC's food pantry) provides free food by appointment to students, faculty and staff. To schedule an appointment, go to https://calendly.com/paulannespantry-mcc/15min.

The CREW, Success Coaches, and Paulanne's Pantry are all located on the second floor of the Student Services building in Success Coaching Services.

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:

Please view our <u>Academic integrity statement</u> for more information about academic integrity, dishonesty, and cheating. The unauthorized use of artificial intelligence (AI) for classwork can be a violation of the College's General Conduct Policy. Whether AI is authorized in a course and the parameters in which AI can be used in a course will be outlined by each instructor.

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. For more information about your student email account, go to www.mclennan.edu/studentemail.

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.

You can find help on the McLennan website about connecting your McLennan email account to your mobile device:

- Email Setup for iPhones and iPads
- Email Setup for Androids

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.

For more helpful information about technology at MCC, go to MCC's Tech Support or email helpdesk@mclennan.edu.

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.