



BIO 235: Microbiology

Online

Semester:

Day(s):

Time(s):

Classroom:

Instructor:

Office Hours:

Office Location:

Phone Number:

Email:

Insert Picture
Here

Prerequisite/Co-requisites: Bio 120

Course Description

This course explores the role of microorganisms in disease and health. Coverage includes structure, function, growth and transmission of viruses, bacteria, fungi, protozoa, and helminths as well as vectors of pathogenic agents. Laboratory activities include study of growth, detection and analysis of various microbial and parasitic organisms. Experiments are supplemented which includes culturing, staining, and analysis of microbes; as well as microscopic slides and serological tests.



Course Goal

Microbes are everywhere and in all aspects of life, therefore we endeavor to learn the foundations of microbiology in a dynamic setting using text, labs, videos and discussions.



Required Text

- **Textbook: Foundations in Microbiology/9th edition**, Talaro & Chess, ISBN: 978-1-259-70521-2 10th edition
- **Lab Book:** All lab information is through eScience, there is NO formal lab manual, please use eScience website
<http://www.eSciencelabs.com/student>
- **Online Supplements:** Student site:
http://higher.ed.mheducation.com/sites/1259705218/student_view0/index.html

- **Materials required-** eScience kit, lab coat, goggles with Ansi Z87.1 or higher.
 - Lab coats are required weekly for CHEM 101 (chemistry) and BIO 235 (microbiology) and are suggested for all other 4 credit science labs. Students can bring their own or borrow for specific labs requiring extra protection (SCI 100, BIO 120, BIO 211, BIO 212). During dissection weeks, long sleeves are highly recommended.
- **Additional Perishable Materials not in eScience kit:** Various foods and around 6 cups of soil
- **Please use the appropriate app for Smartphones and devices:**



Student Learning Outcomes

Learning Outcomes

1. Initiate methods for understanding, completing and (when necessary) making up assignments
2. The essential concepts pertaining to the structure and function of the prokaryotic, eukaryotic and non-living microbes.
3. Identify/name/list the major microbes involved in human diseases
4. The principles of epidemiology, taxonomy, nomenclature and classification

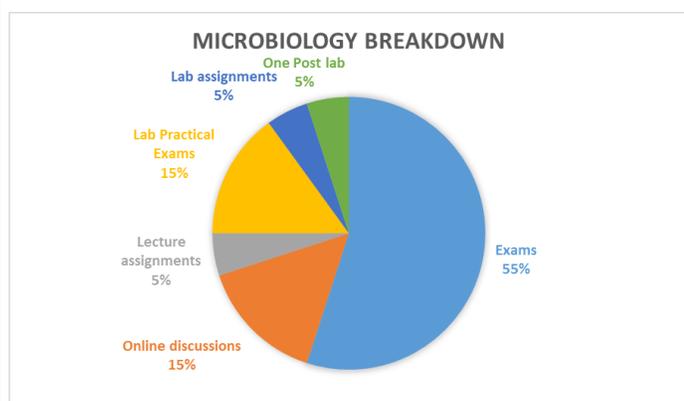
5. Formulate clear and concise questions; identify, gather and assess relevant information
6. Use safe and correct technique for a variety of laboratory procedures
7. Demonstrate proficiency in the use of microscopes
8. Interpret and present data in experimental reports using the correct scientific style and format



Grading Policy

Your performance in this course is assessed using multiple, varied methods in the areas listed below and based on the expectations as described in the syllabus and outlined in assessment scoring guides or rubrics. If you do not understand the expectations, it is your responsibility to ask the instructor questions.

Exams (5)	55%
Online Discussions	15%
Lab Practical Exams (2)	15%
Lecture-Based Quizzes/ Assessments/ Assignments	5%
Lab Quizzes/ Lab HW Assignments (pre-labs)	5%
One Post-Lab Report through SafeAssign by Week 11	5%
Total:	100%



Grading Key

93-100 = A	80-82 = B-	67-69 = D+
90-92 = A-	77-79 = C+	63-66 = D
87-89 = B+	73-76 = C	60-62 = D-
83-86 = B	70-72 = C-	Below 60 = F



Assessment Methods

This section of the syllabus contains a listing with brief descriptions of the assessment methods for this course. They are designed to align with the student-learning outcomes and provide you with varied ways to demonstrate mastery of the course content. Additional instructions and related scoring guides or rubrics are posted to Blackboard.

Blackboard



Online Discussions (15%):

The discussion board is where you will have ongoing conversation with your classmates and instructor and is a graded. Plagiarism is not allowed (see below). Do not copy material from the book/internet/other resource or your classmates when answering the assignment questions or posting on the discussion board

Discussions open on SUNDAY at 12:00 am EST and close each week on Saturday at 11:59 pm EST.

- You are required to post 4 days per week on separate days of the week.
- Your first original post must be made by Monday of each week. If there is a second discussion topic then a second post is due by Wednesday and must be a different day from your first post.
- At least one post must be in response to another student's post.
- See discussion board grading rubric for more details

General Structure:

A minimum of 4 postings must be made on 4 separate days (minimum of 1 posting per day – one post to the instructor's question and one post in response to a classmate's posting (value added or comment)). All posts must meet the high quality /quantity post requirement (see below) to receive full credit for that week's discussion board. All 4 postings cannot be made on the same day (it must be posted on 4 separate days). If the unit contains two chapters there may be two separate discussions and then two original topics (different days) and two replies to topics (two additional days, all of which are different). No topics can be repeated or the posting for that day will not count. **The first posting to the week's chapter discussion question is due on the**

Monday, 11:59 pm EST of the week and on Wednesday if there are two chapters being discussed. Discussions open on Sunday 12:00 am EST and close each week on Saturday at 11:59 pm EST. Discussions may not be made up. ****Usage of PowerPoint slides as a discussion board post will not count and result in a zero due to no original work added.****

General Information:

- **Discussion posts cannot be made up;** the discussion will not be extended for any reason.
- Professional behavior is expected at all times. This includes respect and courtesy for the instructor and fellow students within the virtual classroom discussion board.
- Practice good study habits. If you are having problems with any aspect of this course, I am available to help
- Plagiarism is using someone else's words or images as your own without citing or giving credit back to the originator and is not allowed (see academic integrity). **Any posts with three or more words in a row that are not in your own words will be flagged as plagiarism. Please cite all work or a zero will be recorded.** Wikipedia or any other wiki site, about.com, ask.com, answers.com, etc are not reliable sources and are not accepted as valid sources. **Posts with use of unspecified sources will be awarded a zero.**
 - All discussions are run through SafeAssign (plagiarism checker) weekly.
 - Self Plagiarism is turning in previous work, self plagiarism is not allowed

Grading:

Basically, each post should be "value added." In other words, your posts should further the thread topics; show that you have learned something from our readings or outside research; bring anecdotal, life experiences to the threaded issues; ask relevant and forward moving questions; or otherwise promote the Course Objectives for the week. Posts like "I agree" or "Great post" are nice, goodwill posts, but they will not receive credit. Please review the following quality standards; use them as you formulate your responses:

Quality Measurement

- **High Quality:** Your contributions to each Topic indicate your mastery of the materials assigned. Your responses might integrate multiple views

and/or show value as a seed for reflection for other participants' responses to the thread. You provide evidence that you are reading the assigned materials and other student postings and are responding accordingly, bringing out interesting interpretations. You know the facts and are able to analyze them and handle conceptual ideas.

- **Examples of high quality posts include:**
 - providing additional information to the discussion;
 - elaborating on previous comments from others;
 - presenting explanations of concepts or methods to help fellow students,
 - presenting reasons for or against a topic in a persuasive fashion,
 - sharing your own personal experiences that relate to the topic, and providing a URL and explanation for an area you researched on the Internet. (NO WIKIS as an internet source)
- **Medium Quality:** Your responses build on the ideas of another participant (or more) and dig deeper into assignment questions or issues. When you make intelligent posts during the week, including some good critique of the course material, then you have demonstrated you have an understanding of the material, are reading posts of your colleagues, and are contributing to the class. Your posts demonstrate confidence with the materials, but may be just a bit off target in one area or another.
- **Low Quality:** You have meaningful interaction with other participants' postings. Posts that state I agree or I disagree include an explanation of what is disagreed or agreed upon and why, or introduce an argument that adds to the discussion. However, you may have rambling, lengthy posts that show no sign of having been re-read and refined before posting, and your writing suffers lack of clarity and comprehension.
- **Unsatisfactory Quality:** You will receive little credit in the week's discussion by just showing up and making trivial comments, without adding any new thought to the discussion. At the low end of the spectrum, no participation gets a "0." If you

are not in the discussion, you do not earn any points.

In addition to the above quality standards (high, medium, low, and unsatisfactory), your discussion grade will be determined by your:

- **Frequency:** You must post to each graded thread based on the requirements each week. **You must submit your first post of the week no later than Tuesday, 11:59pm EST.** I encourage you to post earlier and post often in order to keep up with the discussions; they develop rapidly.
- **Quantity:** In order to meet the quality requirements, a post will be at least a paragraph in length (**~ 100 - 200 words**). **One to four sentence posts will not be sufficient to receive full credit** for that posting day. You will find that some topics call for lengthier responses.
- **Accuracy:** Because this is a writing course, your posts must be free of spelling and grammatical errors. Paragraph format must be used. Please use the *Spell Check* provided by Blackboard.



One Post-Lab Report through SafeAssign by Week 11 (5%): One Post-lab report must be submitted into SafeAssign by week 11 for plagiarism check. If picking a staining lab then both staining processes are required (Simple & Gram staining or Endospore & Acid-fast staining). Plagiarized sections will result in a zero for that section. *If repeating a course, make sure you pick a different lab to submit as your post lab, otherwise the system will notify the instructor that you plagiarized a student (yourself). A zero will be recorded in this instance. Lab reports (pre and post) are not community-based assignments (ie: you have to create your OWN assignment and cannot share with a lab partner or anyone else), if they are the same as anyone else's then the grade will be recorded as a zero. Please see folder in Blackboard. Link will automatically close not allowing for late assignments



Lecture-Based Quizzes/ Assessments/ Assignments (5%): Weekly lecture assignments are submitted through SafeAssign weekly (Micro weeks are Sunday to Saturday however an additional day is given if needed).



Lab Quizzes/ Lab HW Assignments (pre-labs) (5%): There are weekly quiz labs to assess learned

content and help with lab mastery. Pre-lab assignments are due before lab and provide a quick overview of the lab experiment. Live microbes are used in lab so it is imperative to know all safety considerations prior to performing the experiment. The pre-lab template is found under 'weekly units' and under 'pre-lab'. The pre-lab assignments count as a quiz grade.

Weekly lab assignments are submitted through SafeAssign weekly (Micro weeks are Sunday to Saturday however an additional day is given if needed. Therefore LAB assignments only will stay open Sun-Sun at 11:59pm EST). The weekly lab assignment (power point) consists of three main areas. The set up, experimentation and results. The set up: In your own words simplify the set up for the experiment, include labeled pictures (you took) to show this process. The experiment(s): explain in your own words the experiments being performed include labeled pictures. Results: Include labeled pictures explaining the results and include a table of those results. *For labs requiring the microscope, include pictures taken through the objective lens*. The link will automatically close not allowing for late assignments. Follow the syllabus and announcements, many labs may need more than a week to grow.



Lab Practicals (15%): Lab practical exams are specific to an individual's lab section and therefore cannot be taken with another section. In other words, lab practical exams cannot be made up. Please plan appropriately to not miss the two scheduled practicals.



Exams (55%): All exams are mandatory. If you have a schedule conflict involving other courses, religious observance, medical, military, court, etc, you must see your instructor at least one week prior to the exam.

Any missed exams will result in a grade of 0 for that exam, unless there are serious extenuating personal circumstance which is immediately brought to the attention of your instructor. Illness will only be accepted as a justification for absence from a scheduled test unless a doctor's excuse is presented. The excuse must be dated on or immediately prior to the exam date and you must contact your instructor prior to the exam in order to be excused. If either of these conditions is not met, you will be given a grade of 0. If you miss an exam and present a legitimate excuse, then, at the discretion of the instructors, a make-up test will be made available to you

that you must take within 7 days. All make up exams will include 10 essay questions, no bonus, no exceptions.

- Excused absences include deaths of a family member (documentation may be required), Court date (documentation is needed), Military service (orders are required), other extenuating circumstances at the discretion of your instructor.
- Notes may be verified by the registrar



All Assignments:

You may work with other students, but any graded submissions need to be your own individual work.

If you have taken the course before, all graded submissions need to be redone.

Goodwin University does not permit extra credit, bonus points or bonus assignments.

You will complete each assignment to demonstrate your mastery of course content. Evaluation will focus on four aspects of good writing:

- **Content:** Does your writing contain specific details and adequate development? Do you retain focus on the assigned topic?
- **Organization:** Does your writing develop logically? Do individual sentences flow smoothly from one to the next? Do you use clear topic and/or thesis sentences?
- **Style:** Do you demonstrate a level of sophistication through variety in word choice and sentence structure?
- **Grammar:** Are you using Standard Written American English?

All written work submitted (exams, exam essays, lab practical answers, lab report assignments or discussion posts) will be opened in SafeAssign and checked for plagiarism. Emailing of assignments is not allowed. Content will not be graded unless submitted in the proper format within Blackboard. Text submissions are not accepted.

There will be no curving of grades or additional extra credit

There is no emailing of assignments, everything is submitted within Blackboard in either a Word or Power point format (Text submissions are not accepted)

Rubrics are used for grading within the course

Under the “My Grades” tab in Blackboard, the current grade column is an unofficial grade until all assignments and exams are completed and entered. As instructors are grading assignments and exams, the column(s) may appear to be offline, but will be visible once all grades are entered.

Course Outline / Class Schedule*

LECTURE WEEK	HOMEWORK ASSIGNMENTS and READING: Talaro 10 th ed	LAB WEEK www.eSciencelabs.com	HOMEWORK ASSIGNMENTS & READINGS: www.eSciencelabs.com
1) Syllabus, Introduction, Chapter 1: Themes in microbiology	Read chapter 1 BB Discussion board Watch videos Week 1 Syllabus assignment	1) Lab Safety Once your kit comes, go the eScience website and enter the code on the lid of your kit). The manual and information videos are available all semester *2 boxes are coming, one is the kit and one is the microscope	Complete all lab safety activities and questions. Watch eScience videos Lab safety also includes experiment 1 which needs a few days for growth, set up asap.
2) Chap 3: Studying microorganisms. Chap 4: Prokaryotic microbes	Read chapter 3, 4 Watch videos BB discussion board	2) Microscopy lab (Virtual lab)	Complete all lab activities and questions Microscope lab: approx. 1 hour Watch eScience videos Submission assignment
3) Chap 7: Nutrition, ecology & growth. Chap 6: Viruses	Read chapters 6, 7 BB Discussion board Watch video Study for Exam 1	3) Culturing and Aseptic technique (This lab starts your actual experimentations, please check weekly announcements and print off this schedule as some labs are started in advance. Don't save the labs until the weekend).	Complete all lab activities and questions Watch eScience videos Culturing lab: almost 2 hours initial set up. Three additional days of experiment Eukaryote lab (week 5): Must set up Eukaryote lab so you have enough time Submission assignment

<p>4) Exam 1: Chap 1,3,4,6,7 Lecture Chap 13</p> <p>*exam closes Sat at 11:59pm *</p>	<p>Read chapter 13 Watch videos BB discussion board Complete Exam 1 in blackboard</p>	<p>4) Structure and microscopy: (Staining labs: Gram and negative)</p>	<p>Complete all lab activities and questions Watch eScience videos</p> <p>Staining lab: initial set up 90 mins, 3 incubation days, additional experiments</p> <p>Environmental lab (week 11) Only experiment 3, Winogradsky column must be set up as it requires up to 6 weeks' incubation. (Take pictures each week to show changes) Need soil</p> <p>Submission assignment</p>
<p>5) Chap 5: Eukaryotes, Chap 23: Parasites</p>	<p>Read chapters 5, 23 Watch video BB discussion board</p>	<p>5) Eukaryotic microbes, parasitology & viruses</p>	<p>Complete all lab activities and questions</p> <p>Watch eScience videos</p> <p>Eukaryote lab: 2 hours of prep and at least 2 weeks of incubation, set up week 3. **additional items needed, not in kit**</p> <p>Growth lab (week 6) recommend to do initial set up.</p> <p>Submission assignment</p>
<p>6) Chap 11: Methods of control. Chap 12: Drugs and microbes.</p>	<p>Read chapters 11, 12 Watch videos BB discussion board Week 6 Case study assignment Study for Exam 2</p>	<p>6) Growth of microorganisms</p>	<p>Study for Lab Practical 1. Complete all lab activities and questions</p> <p>Watch eScience videos</p> <p>Growth lab: initial set up 90 mins, needs up to 6 days of incubation then 3 experiments. May need to set it up during week 5.</p> <p>Submission assignment</p>
<p>7) Exam 2: Chap 5, 11, 12, 13 and 23 Then chapter 20: Gram negative bacteria Exam closes at 11:59pm on Saturday</p>	<p>Read chapter 20 BB discussion board Complete exam 2 in blackboard</p>	<p>7) Lab Practical 1 complete by Sun 11:59pm</p> <p>There is no lab this week due to assessments (set up week 9 lab)</p> <p>Extended until Oct 29th (for</p>	<p>There are no lab questions this week due to exam and practical.</p> <p>There are no eScience videos this week</p> <p>Selective media (week 9): Complete initial set up then incubate for 2 weeks.</p>

		LP1 only)	Submission assignment
8) Chap 18: Gram pos and neg coccus; Chap 19 Gram pos bacilli	Read chapters 18, 19 Watch video Read article BB discussion board	8) Quantitation of Cultured microorganisms	Complete all lab activities and questions Quantitation lab: under 2 hours of initial prep, 2-3 days of observation Submission assignment
9) Chap 21: Misc. Bacteria	Read chapter 21 BB discussion board Study for exam 3	9) Selective media and agar	Complete all lab activities and questions Watch eScience videos Selective media: Set up during week 7. Additional days and experiments Submission assignment
10) Exam 3: Chap 18-21 Lecture 17 Exam closes at 11:59pm on Saturday	Read chapter 17 BB discussion board Complete exam 3 in blackboard	10) Differential and biochemical tests	Complete all lab activities and questions Watch eScience videos Differential lab: Requires at least 5 hours after set up and incubation Submission assignment
11) Chap 24: DNA viruses	Read chapters 24 Watch video BB discussion board	11) Environmental microbiology and water quality	Complete all lab activities and questions Environmental lab: Initial set up by week 4 for experiment 3 (Winogradsky column). Complete all the experiments during this week. Submission assignment **Post lab must be submitted by week 11 into SafeAssign**
12) Chap 25: RNA viruses	Read chapter 25 Watch video BB discussion board	12) Food microbiology	Complete all lab activities and questions Watch eScience videos Study for Lab practical 2 Food lab: Two experiments. One requires several hours at once, the other requires at least 2 days. *requires additional items not in the kit*

			Submission assignment
13) Chap 26: Environmental micro. Chap 27: Industrial micro	Read chapter 26, 27 Watch video BB discussion board Study for Exam 4	13) LAB PRACTICAL 2 complete by Sat 11:59pm	Study Lab work is complete
14) Week 14 discussion: articles related to micro Find an article as the assignment EXAM 4: chapters 17, 24-27, Exam closes at 11:59pm on Saturday De		14) All lab work is complete. Post lab scores are posted by this week	
15) FINAL EXAM: COMPREHENSIVE (Friday by 6pm)		This Schedule is subject to change. The instructor will announce all changes	

**This syllabus is subject to change. Changes, if any, will be announced in class and on Blackboard.
Be sure to check Blackboard and your Goodwin email regularly!*



Class Policies



Class Meetings: Please refer to the course outline for schedule of meeting dates and holidays. Regular attendance and participation in class is expected. If you expect to be absent or late for a class meeting, email me **before** the beginning of class. If you need to leave class early, speak with me **before** the class session.



Blackboard: Blackboard contains class materials such as PowerPoints, worksheets, media, and links for submitting assignments. Be sure to **check Blackboard often** to stay up to date on announcements, new course materials, and other important information. **All assignments must be submitted on Blackboard.**

*BB issues contact bbsupport@goodwin.edu or call 860-913-2152



Late Assignments: Per department policy, all work is expected to be handed in on time. Any work submitted to the instructor after the due date will result in a zero for that particular assignment. Late assignments or make-up exams are not permitted except when there are documented extenuating circumstances (i.e., medical and family emergencies), and the instructor has been notified 24 hours before or after the deadline. In circumstances in which the instructor permits a make-up exam, the format of the exam is at the discretion of the instructor.

Deadlines are an integral part of all professional careers. Please manage your time and complete all coursework thoroughly and on time. Per department policy, any work submitted to the instructor after the due date will result in a zero for that particular assignment. Be mindful of all due dates on the syllabus schedule to avoid missing any assignment(s).



Laptops and Tablets:

- Firefox is the recommended browser for Blackboard
- Online components of Blackboard may not be compatible with smart phones or tablets.
- No electronics, including but not limited to cell phones and smart watches, can be on person during quizzes, exams, lab practical, or the final exam.

- Laptops and tablets should be used only for academic purposes, playing games and watching videos are disruptive to other students and does not promote a learning environment.
- Earbuds or similar should not be worn in lecture or lab for safety purposes. This does not include any hearing devices required for auditory impairments per the ADA.

You have my permission to audio record the lecture, please place recording device/phone on the table near instructor.



Cell Phones: As a courtesy to your classmates and the instructor, please set cell phones to vibrate. If you must take or make a call, please step out of the classroom to do so. Welcome in the classroom for academic purposes.



Technical Difficulties: For Blackboard technical problems in the course, contact by email: bbsupport@goodwin.edu or phone: **(860) 913-2152**.

For McGraw Hill technical problems in the course, contact by phone at 1-800-331-5094 or website at <http://mpss.mhhe.com/contact.php>

For eScience kit technical problems in the course, contact by phone at 1-888-esl-kits (1-888-375-5487) or email: help@eSciencelabs.com



SafeAssign: It is a program the Instructors use to read posts. Posts that are copied or plagiarized show up underlined in red. This will tell the instructor that you did not write this information. You will be given a zero for any post that shows up in red.

- All written work submitted (exams, exam essays, lab practical answers, lab report assignments or discussion posts) will be opened in SafeAssign and checked for plagiarism. Emailing of assignments is not allowed. They will not be graded unless submitted in the proper format.



Course Decorum: We will create a positive environment in the classroom. There is an expectation of respect and professionalism (i.e., demonstrate respect for instructors, peers, and self, participate in classroom activities, and follow course and university policies).

Examples of proper decorum include and are not limited to:

1. Attending each lecture and lab session
2. Being present and fully engaged while in class
3. Demonstrating and practicing respectful behaviors to one's peers and the instructor
4. Abiding by Goodwin University's academic integrity policy



Snacks: You may bring snacks or beverages to class. If you need to stretch or use the restroom during class time, please feel free to do so when needed.



Communication and E-mail: Students are expected to communicate in a professional manner (i.e., verbal, written, and electronic). I will send course updates and announcements through Blackboard so please **check your Goodwin e-mail account regularly**. Due to FERPA regulations, instructors can only answer questions pertaining to one's course through the Goodwin University email system.



APA Style: This course follows APA style format for all written assignments. All written assignments must be produced using software that is compatible with Blackboard. Assessment of written assignments will include use of APA format, writing, grammar, quotations, and references. APA Style Central is also available at <http://apastylecentral.apa.org/>, the course Blackboard shell, and through the Hoffman Family Library.

Expectations for Written Work: The following are basic expectations for all written work:

1. One-inch margin for all sides of the page (e.g., top, bottom, left, and right side of the page).
2. The font is 12 point.
3. The paper is double spaced.
4. The first page of the paper includes:
 - ✓ Your full name
 - ✓ The date of submission



Testing Policy:

- **No outside resources are allowed while taking exams/practicals, and or quizzes; this will result in a Zero.**
- All exams and practicals (lab exams) are taken within Blackboard, and have only that one browser open. Blackboard may stop your exam if additional browsers or tabs are open. Exams are not reset for this reason.
- All final exams, including ones for accommodations, must be completed by the date of the final exam (found in syllabus outline).
- Students are **NOT** permitted to use any electronic device with internet access.
- Additional time is not given on the exams, please monitor your time.
- Due to blackboard, essay question/s may NOT be the last question on your exam. Please monitor your time appropriately.
- Google Chrome is the preferred browser for Blackboard testing.

Exams are timed and preset to release one randomized question at a time, without the ability to go back. Students will have to complete the exam at one time and the exam will auto submit when the time has ended. Exams can be reviewed on campus.

Exams and lab practicals:

- There will be no resetting or retaking of any graded content. Online course work (exams 1-4, lecture quizzes, and assignments) that is not taken/completed during the allotted time will result in a zero for the course work. Please note: The comprehensive final is online closes FRIDAY at 6pm (not Saturday at 11:59pm)



Attendance Policy: Instructors are federally required to take attendance. Please make sure you are active and participating in order to not lose your spot in the course.

- Please see 'online requirements' and course schedule for weekly requirements.
- Please see 'Establishing attendance' under University policies

Lab Safety Policy

Labs are a very important part of your course work. All students must participate in all eScience labs in order to pass this course.

- Please wear a protective apron from eScience kit or lab coat when performing the experiments.
- Sneakers are recommended when working with the eScience kit.
- You will work with hot agar, chemicals and culturing microbes it is important to make sure you are dressed appropriately with arms and legs covered.
- Students should wear their hair pulled back for safety reasons.
- Goggles are required. Must meet OSHA standards (ANSI Z87.1 Certified or higher)
- Please be careful when working with the eScience kit and do not eat/drink while performing experiments.
- All safety procedures and lab rules must be followed, please refer to lab safety information provided by eScience.
- The above-mentioned safety policies are **NOT** limited to this document any may be amended by the instructor as needed.
- ALL students will complete their lab assignments as scheduled and outlined.
- Labs, weekly lab submissions (power point), weekly lab questions and the one post-lab are due on dates listed in course outline. No late submissions are accepted. Post-lab report must be submitted into SafeAssign by week 11, there is a separate folder for the post lab. Any plagiarized section(s) will result in a zero for that section. *If repeating a course, make sure you pick a different lab to submit as your post lab, otherwise the system will notify the instructor that you plagiarized a student (yourself). Since it is noted in the syllabus, a zero will be recorded in this instance.
- **Microbiology labs require initial set up(s) to grow the microbes followed by one or more days of additional lab days. Please see the time frame document in week 1 (do not wait until Saturday to start your labs – you won't be able to finish).**

Goodwin University Policies and Services

This course adheres to all policies outlined in the Goodwin University catalog.

General academic policies of Goodwin University may be found on the university web site at and in the university catalog at

<http://www.goodwin.edu/academics/catalogs.asp>.

Student services information may be found on the Goodwin University website at <http://www.goodwin.edu/student-services/> and <http://www.goodwin.edu/library/>.