Wayland Baptist University

Division of Mathematics and Sciences

Wayland Mission Statement: Wayland Baptist University exists to educate students in an academically challenging, learning-focused and distinctively Christian environment for professional success and service to God and humankind.

*The School of Mathematics and Sciences emphasizes a rigorous, ethical approach to the study of mathematics and science. We believe that success in these disciplines requires a broad base of content knowledge and the development of the critical thinking skills necessary for the ongoing acquisition, processing and communication of current subject matter. The activities of the School, both academic and professional, intentionally reflect the Lordship of Jesus Christ and His centrality to all of Creation.*

**BIOL 2305 Nutrition Online Edition Fall 2019**

**Instructor: Adam J. Reinhart, Ph.D., Professor of Biology and Chemistry**

 **Office: MSB 203, Plainview Campus**

**Phone: 806 291 1124 (email is by far the best way to contact me)**

 **Fax: 806 291 1968**

**Email:** **reinhart@wbu.edu** **(All email correspondence for this course MUST have Biol 2305 in the subject line).**

Catalog description: The basic science of nutrition is emphasized in this course. References are given to nutritional needs in clinical situations. The role of nutrition in human growth and development and needs change during the life cycle will be emphasized. This course is designed for pre nursing students and does not meet the laboratory life science core requirement. Prerequisite: CHEM 1400, or CHEM 1401 or School approval.

Textbook: Nutrition: An Applied Approach 5th edition

**BIOL 2305 is intended to meet pre-nursing requirements for entrance into nursing schools.** This course will not meet the requirements if you require a laboratory life sciences course for your degree plan. You should check your degree plan and confirm with academic advisors that this course will meet the requirements of the degree you are working on – I am not responsible if you take this course and it does not count the way you want or expect it to count. This is an online course and you are expected to have reliable access to the Internet and possess computer competencies to email assignments as attachments and download and upload large files. Excuses for assignments being late and not turned in correctly because of internet reliability issues will not be accepted. The best way to fend off problems here is to get assignments done early, so that if issues arise, you can effectively deal with them before the deadlines. For some reason, it seems that computer problems tend to hit people trying to get an assignment done in the last minute. You will also be required to learn how to utilize various web-based tools which will require you to set up and use free accounts at web sites outside of WBU. This course requires homework, research, quizzes and discussions on a weekly basis. The course is not designed as a self paced course, and will be very difficult if the student falls behind. No excuses because of other classes or commitments will be accepted for your failure to comply with these requirements. All email correspondence regarding this course should have Biol 2305 in the subject line of the email, and all assignments turned in must be in either rich text (.rtf), MS Word (.doc or .docx), or PDF format only (no PAGES or WORD PERFECT documents etc. ). The actual document name should be **your** last name followed by the title of the assignment (for example, yourname metabolic rate.doc). Unless I change the schedule for a particular assignment in this course, due dates and times published on the tentative schedule will be adhered to.

TIME COMMITMENT:If this course is taken during an 11 week semester in a traditional classroom setting, this course would meet for about 4 hours per week. A good rule of thumb is that students should reserve at least as many hours outside of class as they spend in-class to review material and complete assignments. While virtual campus students have the benefit of flexibility in scheduling when they will review lecture and project materials, the content of this course is NOT reduced from the traditional format and will require AT LEAST the same level of effort as the in-class version of the course! **Therefore – to succeed in this course, students should be prepared to invest a MINIUM of 8 hours per week, with additional effort required to study for assignments or to prepare for chapter quizzes and proctored exams.**

# Course requirements:

1. Students are expected to read the textbook assignments and compile a complete set of notes from the text and lecture. Students will also be required to access the virtual campus blackboard system.

2. Course material is introduced using a combination of readings from the book, PowerPoint slides, video and audio clips, discussions and projects. Students are expected to ask questions and be active participants in the discussions of the material presented.

3. There will be weekly quizzes covering material covered each week. The quiz will be open online for 72 hours. Notice the quizzes open and close at 6AM central time zone (observing daylight savings time). The chapter quizzes **will not** be reopened once they close. The one lowest grade scored on the non proctored chapter quizzes will be dropped (including a zero). These quizzes are a valuable learning tool and students may attempt the quizzes as many times as they wish over the 72 hours the quiz is open, and may use their book and notes to help answer the questions on the quizzes.

4. There will also be proctored midterm and final exams. These exams will each be closed book exams and may only be attempted one time, and a proctor approved by the virtual campus will administer the exam. You MUST have a proctor pre-approved by the virtual campus to do this. You may also choose to use Remote Proctoring through Examity. Set up all of this well in advance of the dates the exam is open.

5. There will be 4 major projects to complete during this course.

 A. You must keep a journal of everything that you eat near the first week of class.

 B. You must complete a dietary nutritional analysis of yourself including observations and recommendations using the 1 week dietary journal you developed near the first week of class.

 C. You must calculate your basal metabolic rate BMR, and use your BMR in conjunction with exercise and other circumstances that influence calorie usage to generate a report of your average caloric usage per day.

D. Pick a Diet Plan – You will read a scientific paper comparing results of a large human study where participants follow a number of major diet plans and many aspects of their health and wellness are tracked. There are a number of questions to answer concerning the study.

6. Discussions and participation. There will be a series of discussion topics throughout the course. These topics will be discussed typically using the discussion tools and some documents must be uploaded to assignment portals. Your participation in the discussions as well as depth of thought and engagement with other students in the class will be graded.

# Outcome Competencies:

I. Students will become competent in content material in the following areas:

1. The role of nutrition in our health (ch 1).

2. Designing a healthy diet (ch 2).

3. The human body: are we what we eat (ch 3).

4. Carbohydrate in nutrition (ch 4).

5. Fat in nutrition (ch 5).

6. Proteins in nutrition (ch 6).

7. Nutrients for fluid and electrolyte balance (ch 7)

8. Nutrients involved in energy metabolism and blood health (ch 10)

9. Achieving and maintaining a healthful body weight (ch 11).

10. Exercise and balance (ch 12)

11. Nutrition through the life cycle: pregnancy and the first year of life (ch 14 -15)

II. Students will become competent using online tools to calculate dietary needs and nutrient consumption and caloric requirements.

III. Students will become competent in keeping a dietary journal, and evaluating nutritional intake and requirements.

# Course evaluation:

The final grade in the course will be derived as follows:

 25% Chapter quiz average. One chapter quiz will be dropped (including a zero).

 35% Proctored midterm and final exam average.

 25% Project grade average.

15% Discussion and participation grade derived from an average of discussion blogs.

University grading system

A 90-100 B 80-89 C 70-79 D 60-69 F below 60 I incomplete W withdrawal

# Late work policy:

Materials accepted by the instructor after the due date will be deducted 10 points per day (24hr period) late. The time and date used to determine when an item was turned in will be the time that the document was logged as “in” the drop box, or in the case of the discussions, the time posted on your discussion entry. Note that the discussion blogs will be set to close at a predetermined time. After the discussion closes, it is not appropriate (and you will not get credit) to post your discussion somewhere else in the content (like as a comment to someone else’s blog entry for this course. Exams and quizzes will not be reopened.

Statement on Plagiarism and Academic Dishonesty: Wayland Baptist University observes a zero tolerance policy regarding academic dishonesty. Per university policy as described in the academic catalog, all cases of academic dishonesty will be reported and second offenses will result in suspension from the university.

Disability Statement: In compliance with the Americans with Disabilities Act of 1990 (ADA), it is the policy of Wayland Baptist University that no otherwise qualified person with a disability be excluded from participation in, be denied the benefits of, or be subject to discrimination under any educational program or activity in the university.  The Coordinator of Counseling Services serves as the coordinator of students with a disability and should be contacted concerning accommodation requests at (806) 291-3765.  Documentation of a disability must accompany any request for accommodations.

Grade Appeals: Students shall have protection through orderly procedures against prejudices or capricious academic evaluation. A student who believes that he or she has not been held to realistic academic standards, just evaluation procedures, or appropriate grading, may appeal the final grade given in the course by using the student grade appeal process described in the Academic Catalog. Appeals may not be made for advanced placement examinations or course bypass examinations. Appeals are limited to the final course grade, which may be upheld, raised, or lowered at any stage of the appeal process. Any recommendation to lower a course grade must be submitted through the Executive Vice President/Provost to the Faculty Assembly Grade Appeals Committee for review and approval. The Faculty Assembly Grade Appeals Committee may instruct that the course grade be upheld, raised, or lowered to a more proper evaluation.

Course Schedule: Dates and times will be adhered to unless specifically changed by the instructor during the course. Any changes will be announced via course announcements. All times are Central time as followed by nearly all of Texas.

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Day** | **Scheduled Course Tasks (only quizzes, exams and projects listed)** | **Discussions & other dates** |
| 19-Aug | Monday | Begin Chapter 1 | Get to know each other |
| 20-Aug | Tuesday |   |   |
| 21-Aug | Wednesday |   | (for all blogs, they are open during |
| 22-Aug | Thursday |   | the shaded time window) |
| 23-Aug | Friday | **Syllabus / email quiz due at 11PM** |   |
| 24-Aug | Saturday | Quiz 1 opens at 6AM for 72 hours |   |
| 25-Aug | Sunday | Begin Chapter 2 | Oh My Goodness I ate... *that*? |
| 26-Aug | Monday | Begin week long daily nutrition journal |   |
| 27-Aug | Tuesday |  Quiz 1 closes at 6AM |   |
| 28-Aug | Wednesday |   |   |
| 29-Aug | Thursday |   |   |
| 30-Aug | Friday |   |   |
| 31-Aug | Saturday | Quiz 2 (chapter 2) opens at 6AM  |   |
| 1-Sep | Sunday | End daily nutrition journal |   |
| 2-Sep | Monday |  |   |
| 3-Sep | Tuesday | Quiz 2 (chapter 2) closes at 6AM  | no-shows reported/ proctor info due |
| 4-Sep | Wednesday | Daily nutrition journal due at 6AM |   |
| 5-Sep | Thursday |   |   |
| 6-Sep | Friday |   |   |
| 7-Sep | Saturday | Quiz 3 (chapter 3) opens at 6AM. |   |
| 8-Sep | Sunday | Begin Chapter 4  |   |
| 9-Sep | Monday |   |   |
| 10-Sep | Tuesday | Quiz 3 (chapter 3) closes at 6AM. |   |
| 11-Sep | Wednesday |   |   |
| 12-Sep | Thursday |   |   |
| 13-Sep | Friday |   | Pick a diet plan discussion |
| 14-Sep | Saturday | Quiz 4 opens at 6AM |   |
| 15-Sep | Sunday | Begin Chapter 5 |   |
| 16-Sep | Monday |   |   |
| 17-Sep | Tuesday | Quiz 4 (chapter 4) closes at 6AM  |   |
| 18-Sep | Wednesday | Dietary analysis of yourself Due at 6AM |   |
| 19-Sep | Thursday |   |   |
| 20-Sep | Friday |   |   |
| 21-Sep | Saturday | Quiz 5 (chapter 5) opens at 6AM for 72 hours. |   |
| 22-Sep | Sunday | Begin Chapter 6 |   |
| 23-Sep | Monday |   |   |
| 24-Sep | Tuesday | Quiz 5 (chapter 5) closes at 6AM. |   |
| 25-Sep | Wednesday |   |   |
| 26-Sep | Thursday |   |   |
| 27-Sep | Friday |   |   |
| 28-Sep | Saturday | Quiz 6 opens at 6AM |   |
| 29-Sep | Sunday | Proctored mid term exam (chapters 1-6) opens at 6AM |   |
| 30-Sep | Monday | Begin Chapter 11 |   |
| 1-Oct | Tuesday | Quiz 6 (chapter 6) closes at 6AM | Supersize Me |
| 2-Oct | Wednesday |   | This is a discussion AND |
| 3-Oct | Thursday |   | a worksheet you turn in |
| 4-Oct | Friday |   |   |
| 5-Oct | Saturday | Quiz 7 (chapter 11) opens at 6AM for 72 hours |   |
| 6-Oct | Sunday |  |   |
| 7-Oct | Monday | Proctored mid term exam closes at 11PM |   |
| 8-Oct | Tuesday | Quiz 7 (chapter 11) closes at 6AM |   |
| 9-Oct | Wednesday | Metabolic rate and caloric requirement project due 6AM |   |
| 10-Oct | Thursday |   |   |
| 11-Oct | Friday |   | Last day to get a W |
| 12-Oct | Saturday | Quiz 8 (chapter 13) opens at 6AM for 72 hours |   |
| 13-Oct | Sunday | Begin Chapter 15 | Life's Greatest Miracle  |
| 14-Oct | Monday |   | Not really a discussion, but an  |
| 15-Oct | Tuesday | Quiz 8 (chapter 13) closes at 6AM | essay and a worksheet |
| 16-Oct | Wednesday | Eating disorder presentation due 6AM |   |
| 17-Oct | Thursday |   |   |
| 18-Oct | Friday |   | Last day to get a WP/WF |
| 19-Oct | Saturday |  Quiz 9 (chapter 15) opens at 6AM for 72 hours |   |
| 20-Oct | Sunday | Begin Chapter 16 |   |
| 21-Oct | Monday | Quiz 10 opens at 6AM  |   |
| 22-Oct | Tuesday | Quiz 9 (chapter 15) closes at 6AM |   |
| 23-Oct | Wednesday | Proctored Final Exam Opens 6AM |   |
| 24-Oct | Thursday |   |   |
| 25-Oct | Friday |   |   |
| 26-Oct | Saturday |   |   |
| 27-Oct | Sunday |   |   |
| 28-Oct | Monday |   |   |
| 29-Oct | Tuesday | Quiz 10 closes at 6AM  |   |
| 30-Oct | Wednesday |  |   |
| 31-Oct | Thursday |   |   |
| 1-Nov | Friday | Proctored Final Exam Closes at 11 PM |   |
| 2-Nov | Saturday |   | **VC Term Ends** |