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### BIOH 113.01: Human Form and Function II

Heather D. Labbe

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# BIOH 113 - HUMAN FORM AND FUNCTION II

**COURSE MEETING TIMES:** Tuesdays and Thursdays 3:40-5pm, NULH

**INSTRUCTOR:** Heather Labbe

## CONTACT INFORMATION:

Office phone: 243-5436

Email: [heather.labbe@mso.umt.edu](mailto:heather.labbe@mso.umt.edu)

Office Hours: Tuesdays 9:10-11am, ISB 103A and by appointment

**COURSE ONLINE SUPPLEMENT:** All lectures, assignments, and info regarding participation opportunities will be posted on the course Learning Management System (LMS), [Moodle](#).

**TEXT: REQUIRED:** Anatomy and Physiology: From Science to Life. Jenkins and Tortora, 3rd edition

**RECOMMENDED:** WileyPlus is the publisher generated online content for the course. If you bought your text from the UM bookstore the book will include a registration code for this content. It may also be purchased as a standalone product and does include an e-version of the above required text. If you wish to ONLY purchase WileyPlus and are comfortable having a digital version of the required text you may do so by following the instructions found on the [WileyPlus page for the course](#).

## GENERAL COURSE LEARNING GOALS:

- Develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and physiology.
- Recognize the anatomical structures and explain the physiological functions of body systems.
- Recognize and explain the principle of homeostasis and the use of feedback loops to control physiological systems in the human body.
- Use anatomical knowledge to predict physiological consequences, and use knowledge of function to predict the features of anatomical structures.
- Recognize and explain the interrelationships within and between anatomical and physiological systems of the human body.
- Synthesize ideas to make a connection between knowledge of anatomy and physiology and real-world situations, including healthy lifestyle decisions and homeostatic imbalances.
- Interpret graphs of anatomical and physiological data.
- Approach and examine issues related to anatomy and physiology from an evidence-based perspective.

## GENERAL COURSE LEARNING OUTCOMES:

- Demonstrate practical knowledge of human gross and microscopic anatomy.
- Identify structures in the body and their interrelationship with other structures.
- Describe development, regeneration, normal function of body systems.
- From observations of A&P status, interpret observations & predict consequences to homeostasis.
- Demonstrate understanding of chemical and biological principles and knowledge that serve as the foundation for understanding of human anatomy & physiology.
- Employ the scientific process for understanding principles of anatomy & physiology.
- Evaluate scientific value of new A&P observations & data.
- Describe energy-transfer processes in human body & predict consequences of interrupted or pathologic energy transfer.
- Describe cellular processes governing development, growth, & normal function of the human body.

**CHAPTER SECTION SPECIFIC LEARNING OUTCOMES ARE PROVIDED IN THE LECTURES, TEXT, AND EMBEDDED WITHIN WILEYPLUS**

## ASSIGNMENTS:

There are four, 25 point assignments that are due throughout the semester. Assignment assessments are generally based off of a reading, video, or podcast which will be accessible via the course Moodle supplement.

All assignment assessments will be posted on Moodle two weeks prior to their due date, and must be completed and submitted prior to the due date deadline.

**NO LATE ASSIGNMENTS WILL BE ACCEPTED.**

## PARTICIPATION GRADE LAB PROSECTION DAYS:

THURSDAYS 1:30– 3 PM  
FRIDAYS 2:30 – 4 PM  
SUNDAYS 7:00 - 8:30 PM  
MONDAYS 9:00 – 10:30 AM

**Prosection 1: Overview of Organ Systems: Focus on Terminology and Identification  
FEBRUARY 12TH, 13TH, 15TH, AND 18TH (WED AT 10:30AM DUE TO PRESIDENT'S DAY HOLIDAY)**

**Prosection 2: Focus on Blood and the Cardiovascular System  
MARCH 12TH, 13TH, 15TH, AND 16TH**

**Prosection 3: Focus on the Respiratory and Digestive Systems  
APRIL 9TH, 10TH, 12TH, AND 13TH**

**Prosection 4: Focus on the Urinary and Reproductive Systems  
MAY 7TH, 8TH, 10TH, AND 11TH**

Additional participation point opportunities will be posted to the Moodle page as the semester progresses. These may take the form of, but are not limited to, temporally limited online assessments, service activities, and attendance at on-campus lectures or seminars. Availability of participation opportunities is subject to the discretion of the instructor. No more than 200 points will be made available during the semester, from which each student will fill a quota of 50 points. **Once the quota is filled, a student may continue to complete the participation activities, but no more than 50 participation points will be awarded. If a student accrues 150 or more points, a bonus of 5 points of extra credit will be added to their overall course point total.**

NO STUDENT WILL BE ABLE TO ACCUMULATE MORE THAN 50 POINTS OF PARTICIPATION, REGARDLESS OF THE NUMBER OF POINTS ACCUMULATED OVER 50.

NOTIFICATION OF PARTICIPATION POINT OPPORTUNITY AVAILABILITY WILL BE SENT TO YOUR UNIVERSITY EMAIL ADDRESSES VIA MOODLE ANNOUNCEMENTS.

## **TENTATIVE READING SCHEDULE (AS WE PROGRESS THROUGH SEMESTER- CHECK MOODLE FOR UPDATES)**

| DATE | TOPIC  | REQUIRED READING           |
|------|--|----------------------------|
| 1/27 | Course Policies and Introduction to Resources              | Course P&P handout         |
| 1/29 | The Human Body, An Orientation                             | JT: Ch1 sections 1.1-1.7   |
| 2/3  | The Human Body, An Orientation                             | JT: Ch1 sections 1.1-1.7   |
| 2/5  | Control Systems: Endocrine                                 | JT: Ch sections 17.1-17.10 |
| 2/10 | Control Systems: Endocrine                                 | JT: Ch sections 17.1-17.10 |
| 2/12 | Control Systems: Endocrine                                 | JT: Ch sections 17.1-17.10 |
| 2/17 | Connective Tissue: Blood                                   | JT: Ch sections 18.1-18.9  |
| 2/19 | Connective Tissue: Blood<br><b>Assignment #1 Due Today</b> | JT: Ch sections 18.1-18.9  |
| 2/24 | Cardiovascular System: The Heart                           | JT: Ch sections 19.1-19.8  |
| 2/26 | <b>Exam #1</b>   |                            |

| DATE                      | TOPIC   | REQUIRED READING           |
|---------------------------|---|----------------------------|
| 3/3                       | Cardiovascular System: The Heart  | JT: Ch sections 19.1-19.8  |
| 3/5                       | Cardiovascular System: The Heart  | JT: Ch sections 19.1-19.8  |
| 3/10                      | Cardiovascular System: The Heart  | JT: Ch sections 19.1-19.8  |
| 3/12                      | Cardiovascular System: The Vessels  | JT: Ch sections 20.1-20.10 |
| 3/17                      | Cardiovascular System: The Vessels  | JT: Ch sections 20.1-20.10 |
| 3/19                      | The Respiratory System<br><b>Assignment #2 Due Today</b>                  | JT: Ch sections 22.1-22.10 |
| 3/24                      | The Respiratory System  | JT: Ch sections 22.1-22.10 |
| 3/26                      | The Respiratory System  | JT: Ch sections 22.1-22.10 |
| 3/31                      | Spring Break  |                            |
| 4/2                       | Spring Break  |                            |
| 4/7                       | The Digestive System  | JT: Ch sections 23.1-23.10 |
| 4/9                       | <b>Exam #2</b>  |                            |
| 4/14                      | The Digestive System  | JT: Ch sections 23.1-23.10 |
| 4/16                      | The Digestive System<br><b>Assignment #3 Due Today</b>                    | JT: Ch sections 23.1-23.10 |
| 4/21                      | The Digestive System  | JT: Ch sections 23.1-23.10 |
| 4/23                      | The Urinary System  | JT: Ch sections 24.1-24.10 |
| 4/28                      | The Urinary System  | JT: Ch sections 24.1-24.10 |
| 4/30                      | The Reproductive System and Development                                   | JT: Ch sections 25.1-25.5  |
| 5/5                       | The Reproductive System and Development                                   | JT: Ch sections 25.1-25.5  |
| 5/7                       | The Reproductive System and Development<br><b>Assignment #4 Due Today</b> | JT: Ch sections 25.1-25.5  |
| <b>Wednesday<br/>5/13</b> | <b>Final Exam</b>   | <b>(1:10pm - 3:10pm)</b>   |

# BIOH 113 - HUMAN FORM AND FUNCTION

## BRIEF COURSE DESCRIPTION:

This is the second semester of an introductory, year-long series lecture course designed to meet the needs of the student who has minimal background in chemistry and biology, but has an interest in the structure and function of the human body. Lectures emphasize common anatomical terms as well as the principles, facts and concepts needed to appreciate the normal organization of the human body. A macroscopic, systems- based, lecture only approach is used to introduce the basic structure and function of the human body, with a subsequent emphasis on the endocrine, cardiovascular, pulmonary, gastrointestinal, urinary and reproductive systems. There is no pre-requisite for this class; students may take BIOH 113 without having taken BIOH 112.

## LEARNING GOALS:

This course will provide you with conceptual and practical information regarding the anatomy and physiology of the human organism. At the completion of this course, you should be able to 1) correctly identify and express terminology and abbreviations associated with the disciplines of anatomy and physiology, 2) interpret the inseparable relationship between the structure and function of the human organism, and, 3) have gained a strong background of the biological concepts related to the study of human anatomy and physiology. Specific learning outcomes for each chapter we cover are posted to the course online supplement.

## TEACHING METHODS:

Lecture and occasional prosection demonstrations

## COURSE REQUIREMENTS:

You will be expected to complete readings from the text book and other sources. Regular attendance at all lecture meetings is required to successfully complete this course. There are four scheduled opportunities this semester during which we will be making cadaver lab visits to view material; attendance is encouraged and will serve to reinforce the material covered on examinations. Attendance at these lab visits will count toward participation points. You must also accept the responsibility to ask questions if you do not understand the concepts.

**IF ABSENCE FROM LECTURE IS NECESSARY DUE TO ILLNESS, IT IS YOUR RESPONSIBILITY TO OBTAIN NOTES FROM ANOTHER STUDENT.**

**MAKE SURE THAT YOU HAVE A "STUDY BUDDY" IN CLASS.**

## EVALUATION METHODS:

Your course grade will be determined by your performance according to the following evaluation methods:

**Assignments: 100 pts.**

**Participation Points: 50 pts.**

**Two Lecture Examinations: 200 pts.**

**Final examination: 150 pts.**

**Total: 500 pts.**

Please note the final examination policy from the [University of Montana Undergraduate Course Catalog 2014 - 15](#) - "Students may seek relief from writing more than two examinations during the same day. Students who are scheduled for more than two examinations may contact the appropriate faculty to arrange an alternate testing time during the scheduled final examination period. If satisfactory arrangements cannot be made, the student should seek the assistance of his or her dean."

**FOR THE BIOH 113 FINAL, ANY "ALTERNATE TESTING TIME" WILL BE SCHEDULED AFTER THE ORIGINALLY SCHEDULED FINAL EXAMINATION, AND WILL REQUIRE DOCUMENTATION OF MORE THAN TWO FINAL EXAMINATIONS ON A GIVEN DAY.**

## GRADING SYSTEM:

Grades will be calculated based upon the following system:

**A = 92.5% or better**

**A minus = 89.5 – 92.4%**

**B plus = 86.5% - 89.4%**

**B = 82.5% - 86.4%**

**B minus = 79.5% - 82.4%**

**C plus = 76.5% - 79.4%**

**C = 72.5% - 76.4%**

**C minus = 69.5% - 72.4%**

**D plus = 66.5% - 69.4%**

**D = 62.5% - 66.4%**

**D minus = 59.5% - 62.4%**

**F = 59.4% and below**

Final grades will be based on the percentage earned out of a total of 500 points.

Please be aware that this course does use a “plus/minus” grading system.

## CREDIT (CR) OR NO CREDIT (NCR) GRADING OPTION

Students opting to be graded on a credit/no credit system should take note of the University policy that: "**a CR is given for work deserving credit (A through D-) and an NCR for work of failing quality (F)**". Additionally, as noted in the 2014- 15 Undergraduate Course Catalog: "Election of the credit/no credit option must be indicated at registration time or within the first 15 class days on CyberBear. Between the 16th day and the last day of instruction before finals week, a student may request a change from credit/no credit enrollment to an enrollment under the A-F grade system, or the reverse, by means of a Course Add/Change Form; note that not all such requests are approved." Please see the [academic catalogue](#) for more information.

Please also note:

**"The University cautions students that many graduate and professional schools and some employers do not recognize non-traditional grades (i.e., those other than A through F) or may discriminate against students who use the credit/no credit option for many courses. Moreover, students are cautioned that some degree programs may have different requirements regarding CR/NCR credits, as stipulated in the catalog."**

## AUDIT

Students opting to audit BIOH 113 should take note of the University policy that a change of grading option to audit is not allowed after the 15th instructional day: February 13<sup>th</sup>, 2015.

## INCOMPLETES

"It is assumed that students have the responsibility for completing the requirements of the courses in which they are enrolled within the time framework of the semester. A grade of Incomplete (I) **may** be given when, **in the opinion of the instructor**, there is a reasonable probability that students can complete the course without retaking it.

**The incomplete is not an option to be exercised at the discretion of a student. In all cases it is given at the discretion of the instructor within the following guidelines:**

1. A mark of incomplete may be assigned students when:
  - The student has been in attendance and doing passing work up to three weeks before the end of the semester, **and**
  - for reasons beyond the student's control and which are acceptable to the instructor, the student has been unable to complete the requirements of the course on time. **Negligence and indifference are not acceptable reasons.**

2. The instructor sets the conditions for the completion of the course work and notes these conditions on the final grade report.
3. When a student has met the conditions for making up the incomplete, the instructor will assign a grade based upon an evaluation of the total work done by the student in the course.
4. An incomplete which is not made up within one calendar year automatically will revert to the alternate grade which was assigned by the instructor at the time the incomplete was submitted.
5. An incomplete remains on the permanent record and is accompanied by the final grade, for example, IA, IB, IC, etc.”

For additional grading information please refer to the [University of Montana Undergraduate Course Catalog 2014-15](#).

## EXAMINATIONS

Students are expected to prepare and be present for examinations on the scheduled dates, and at the scheduled time.

The first two lecture exams will consist of 50 questions, and cover only the new material presented since the previous exam.

**The final exam will include 50 questions covering only the material since the second exam, as well as 25 cumulative questions.** All exams will be drawn from lecture material, assigned reading, and discussion material.

**If a dispute should arise regarding the answer to an examination item, or a grade on the exam itself, the judgment of the faculty member will be final. This dispute must be communicated within five (5) business days after the grades are posted. Under no circumstances will examination grades be reconsidered after this time.**

## ABSENCES AND MAKE-UP EXAMINATIONS

“Students are expected to attend all class meetings and complete all assignments for courses in which they are enrolled. Instructors **may** excuse brief and occasional absences for reasons of illness, injury, family emergency, religious observance or participation in a University sponsored activity. (University sponsored activities include for example, field trips, ASUM service, music or drama performances, and intercollegiate athletics.) Instructors **shall** excuse absences for reasons of military service or mandatory public service.”

Make-up examinations are reserved for those students who are prevented from taking an examination on the originally scheduled date due to an **excused** absence. **Students missing exams due to unexcused absences will not be afforded a “make-up” opportunity.** An absence is considered excused when a student both follows the appropriate notification procedure (described below) AND experiences:

- a **documented** illness, injury or emergency,
  - A note from a physician constitutes appropriate documentation of illness or injury. Appropriate documentation of emergency is case specific and subject to the discretion of the instructor.
- or **documented** military or mandatory public service requirement, or participation in a University-sanctioned activity that conflicts with the exam time/date.
  - Documentation of participation in a University-sanctioned activity requires written communication from the University of Montana, Office of Academic Advising. Student athletes must provide this documentation to me **within the first week of classes.**

## NOTIFICATION PROCEDURE:

Students must call or email the course instructor (Heather Labbe at 406-243-5436 or heather.labbe@mso.umt.edu) **before** examination time or in order to communicate the nature of the problem they feel precludes them from taking a test. (If you are unable to speak with me personally, leave me a message on the voicemail. Also, please note that simply informing me that you will be absent does not constitute an excused absence.) **In order to be considered excused, documentation is required in all cases.** Based upon this communication, the course instructor will decide whether a make-up test is merited. **(All “make-up” or alternate examinations WILL have different test items and a different format than the original examination.)** If a make-up test is not

provided, the student will receive a zero (0) as a score for that examination. If a make-up test is provided, the recorded score is the score received. If a student fails to take a scheduled make-up exam, the exam grade will be recorded as a zero (0) and the make-up opportunity is forfeited.

## **ASSIGNMENTS:**

There will be four 25 point assignments due throughout the course of the semester. These assignments will require listening to or reading supplemental course material assigned by the instructor (usually available on the Moodle page) and then completing an accompanying online assessment. You must submit the Moodle assessment successfully in order to have the assignment graded. **It is strongly recommended to submit the assignment prior to the date it is due, in order to prevent 'last minute' submission problems.** Any computer related issues should be directed to the nice folks at the campus IT office as your instructor takes no responsibility for temperamental technology- especially crises that occur shortly before submission deadlines.

**It is the student's responsibility to ensure successful submission prior to the due date.**

**Once the Moodle assessment 'closes', no further submissions will be accepted for any reason.**

Assignment due dates:

2/19/15

3/19/15

4/16/15

5/7/15

## **PARTICIPATION POINTS:**

There will be multiple opportunities for Participation Points this semester. A total of 50 participation points are available, and the student may choose from a variety of assignments and activities in order to earn the participation credit. There will be four cadaver lab prosection visits during the semester, each worth 10 participation points. Other sources of participation points will include temporally limited online Moodle assessments, discretionary assignments posted by the instructor to the Moodle page, WileyPlus based assignments, and in class discussion session activities. The Moodle and/or WileyPlus assessments will be multiple choice, matching or identification, and will cover the current lecture material, assigned readings, and pro-section discussion material. Participation point assignments may also take the form of service activities and/or attendance at on or off campus lectures or seminars and are subject to the discretion of the instructor.

**NO MORE THAN 50 PARTICIPATION POINTS WILL BE AWARDED TO ANY STUDENT, EVEN IF THE TOTAL ACCUMULATED POINTS EXCEEDS THE QUOTA OF 50.**

**HOWEVER, THOSE STUDENTS THAT REACH A TOTAL OF 150 POINTS AT THE END OF THE SEMESTER WILL BE AWARDED AN EXTRA CREDIT BONUS OF 5 POINTS.**

## **EXTRA CREDIT ASSIGNMENTS:**

Under no circumstances will any additional assignments/projects be provided on an individual basis. Do not ask me at the end of the semester if there is "anything you can do" to raise your grade. This does not mean, however, that extra credit will not be offered; rather, extra credit opportunities will be periodically available to the entire class. You are encouraged to attend class regularly, as extra credit may take the form of in-class activities. For all students, the final grade for the course will be determined solely by performance on the evaluation methods described above.

## **DROPPING AND ADDING COURSES OR CHANGING SECTIONS, GRADING OR CREDIT STATUS:**

I will adhere to the instructions regarding these academic policies and procedures outlined in the [University of Montana Undergraduate Course Catalog 2014-15](#).



Please refer to the [registrar's calendar](#) for important Spring 2015 semester deadlines.

2015 spring semester **fifteenth** (15th ) instructional day: **February 13<sup>th</sup>**.

**Courses dropped after February 13th result in a “W”, “WP”, or “WF” on the student’s transcript, do not generate a refund, and may affect financial aid eligibility.**

### **FINANCIAL AID RECIPIENTS**

If a student has been awarded financial aid and needs to ensure that they meet the federal guidelines for attendance, they should be sure to participate in the course at least through the cutoff date via any of the mechanisms listed below:

- Submitting an assignment
- Participating in an online forum
- Taking an exam
- Submitting an online quiz
- Attending a lab visit
- Submitting an in class assignment

**OR** make sure they make their presence known to the instructor or TA in class around and after the cutoff date. Keep in mind that I do not take attendance in class and that documentation of attendance is necessary for this purpose and the student’s responsibility.

**To be eligible to receive federal aid the student must have participated verifiably at least once in the course, and to be eligible to receive the full amount (whether loans or grants), they need to have participated through 60% of the course, or roughly the 45th day of classes. For spring of 2015, that date is April 6th.**

### **STUDENT CONDUCT:**

As stated in the University of Montana Undergraduate Course Catalog 2014-15: "The Student Conduct Code, embodying the ideals of academic honesty, integrity, human rights and responsible citizenship, governs all student conduct at The University of Montana-Missoula. Student enrollment presupposes a commitment to the principles and policies embodied in this Code." All students are encouraged to review this link to the [University of Montana Student Conduct Code](#).

### **PLAGIARISM WARNING**

“Plagiarism is the representing of another's work as one's own. It is a particularly intolerable offense in the academic community and is strictly forbidden. Students who plagiarize may fail the course and may be remanded to Academic Court for possible suspension or expulsion. Students must always be very careful to acknowledge any kind of borrowing that is included in their work. This means not only borrowed wording but also ideas. Acknowledgment of whatever is not one's own original work is the proper and honest use of sources. Failure to acknowledge whatever is not one's own original work is plagiarism.”

Student Conduct Code – University of Montana, Missoula

### **CLASSROOM AND LABORATORY CONDUCT**

#### **ELECTRONIC COMMUNICATIONS**

UM policy requires that an official UM student email address be used for all correspondence between faculty and students. All student posts to online resources, such as Moodle discussion forums, are to be respectful and appropriate at all times. Use of profane language in any online forum will be reported to the Dean of Students.

#### **CELL PHONES AND OTHER ELECTRONIC DEVICES**

The use of cell phones and other non-computer electronic devices (including cameras, video recorders) is prohibited during all class times, especially examinations. No electronic devices of any kind are permitted in the cadaver lab.

## **DISRUPTIVE BEHAVIOR**

Students who are being disruptive in lecture by talking, texting or playing computer games will be asked to leave the classroom. Activities such as eating, drinking, the use of tobacco products and/or the use of electronic cigarettes (i.e. “vaping”) during lab or lecture are **strictly** prohibited. Such behaviors impact the learning of other students in the classroom and will not be tolerated. Re-admittance to class is at the discretion of the instructor.

## **DISABILITY SERVICES FOR STUDENTS:**

I am committed to creating an environment of equal access for all students. In an attempt to be fair to all students, I will adhere to the Americans with Disabilities Act and Section 504 of the Rehabilitation Act by only making accommodations based upon guidance received from the staff of the University of Montana Disability Services for Students (DSS). Please see the [DSS webpage](#) for more information.

Before these accommodations can be suggested and granted, "DSS requires comprehensive documentation of a disability and its impact on learning." If you are a student requiring a test modification, you must provide me your paperwork as soon as possible (email from the DSS office is acceptable). I will follow the [test modification guidelines](#) delineated on the DSS on their webpage. If you have not contacted DSS, and feel that you might require test modifications, please contact their office immediately.

## **LECTURER:**

Lectures for BIOH 113 will be presented by Heather Labbe, M.S.

I received my B.A. from the University of Colorado, Boulder, and my M.S. from the University of Montana, Missoula. As an undergraduate, I worked as a research assistant in the paleontology department of the CU museum and worked extensively with the fossilized remains of ungulates and primates. Since then, while I have worked with many different types of vertebrates, the common themes of form and function have remained my primary interests. My thesis research dealt with the kinematics of terrestrial birds as they employed a stereotypical locomotor strategy known as wing-assisted incline running, and the implications of that particular movement pattern to the evolution of avian flight. Over the last 13 years, I have taught labs and lecture for the BIOH 365/370 Human Anatomy and Physiology courses, taught anatomy as an adjunct for the School of Physical Therapy and Rehabilitation, and currently teach the cadaver dissection course (BIOH 456/457) and the honor's lab section of BIOH 365/370. I am the research lab manager at the University of Montana's Research Station at Fort Missoula, and also work part time locally as an EMT. I developed, and have been teaching this course for the last nine years, and I am looking forward to working with an enthusiastic group of students.

## **CONTACT INFORMATION**

My office phone number is 406-243-5436 and my lab phone number is 406-243-6834. However, email is quicker and much more reliable.

Email: [heather.labbe@mso.umt.edu](mailto:heather.labbe@mso.umt.edu)

## **OFFICE LOCATION**

My office is in the Interdisciplinary Science Building on the first floor in ISB 103A. It is the “new” building just south of the Health Sciences building.

## **OFFICE HOURS**

My office hours are: Tuesdays 9:10am to 11am in ISB 103A. There is a sign-up sheet outside my office door. If no one has signed up, feel free to “walk-in”.

Other times by appointment (just email or call me!)