Fall 9-1-2020

BIOH 366.01: Human Anatomy and Physiology for Health Professions I Laboratory

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BIOH366 Syllabus Fall 2020

Human Anatomy and Physiology for Health Professions I Laboratory

Course Information:

Instructors:
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Office: HS101
Office Hours: *by appointment*

General Course Information:

Human Anatomy and Physiology is a 1-credit laboratory, two-semester sequence course (BIOH 366 and BIOH 371). The laboratory focuses on anatomical structure using prosected cadavers, laboratory specimens, animal organ dissection, models, simple physiological experiments and computer simulations.

Students enrolled in the Honors Laboratory will earn an additional credit (2 credits total). Honors lab students will meet for one additional half hour each week. Students enrolled in the honors increment will be required to complete an end of the semester project and take a cumulative laboratory practical exam.

This course predominately serves students majoring in biology, pre-medical, pre-nursing, pre-physical therapy, other pre-health care professions and health and human performance.

The two-semester sequence is divided as follows:

BIOH 366	BIOH 371
Body Plan & Organization Homeostasis Cell Biology Review/Metabolism Histology Integumentary System Skeletal System & Articulations Muscular System Nervous System Special Senses	Endocrine System Cardiovascular System Lymphatic System & Immunity Respiratory System Digestive System Metabolism Urinary System Fluid/Electolytes & Acid/Base Balance Reproductive System

Required Prerequisites:

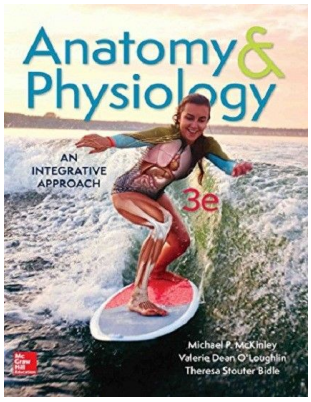
College Chemistry: CHMY 121N (CHEM 151N): Intro to General Chemistry -or- CHMY 141N (CHEM 161N): College Chemistry
College Biology: BIOB 160N (Principles of Biology) -or- BIOH 112 (Introduction to Human Form and Function I)-or- BIOH 113 (Introduction to Human Form and Function II).

Recommended Prerequisites:

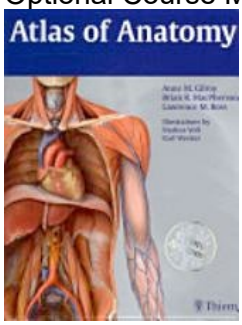
BIOB 260: Cellular and Molecular Biology, BIOB272: Genetics and Evolution

**** In order to advance to BIOH371 for the Spring semester, you must earn a grade of C- or higher in BIOH366**
Required Co-Requisite:
BIOH365

Required Course Materials:
Anatomy and Physiology, an Integrative Approach, 3rd edition. McKinley, O'Loughlin, Bidle. McGraw Hill, 2018.



Optional Course Materials:



Atlas of Anatomy by Anne M. Gilroy, Brian R. MacPherson, Lawrence M. Ross - Thieme (2008) –ISBN-978-1-60404-062-1 or any related edition.

Class-Specific Technology Requirements:
Students are expected to be familiar with computers and the internet. Students are responsible for their own software and computer equipment maintenance and setup as recommended by the University of Montana. (https://www.umt.edu/umonline/services-and-support/student-support.php)

With a blended teaching format, computers will be necessary to access course materials.

- Students must be able to use and access their Moodle and UMBox accounts.
- Students must be able to download and review posted course materials prior to laboratory sessions.
    - Class materials will be in the format of mp4 video files, pdfs, Microsoft power points, and Microsoft word documents.

- Students are expected to have a "back-up plan" if personal computers become compromised.
    - The University of Montana maintains several computer labs on campus: http://www.umt.edu/it/support/computerlabs/default.php

Technical Support:

- For questions regarding your NetID or password, UMConnect email account, or for technical computer assistance:
    - Call the IT Central Help Desk at (406) 243-HELP (4357), 8am - 5pm, Monday-Friday
    - Email itcentral@umontana.edu.
- For technical support for UMOnline and Moodle:
    - Call the UMOnline Support Desk, 8am - 5pm, Monday through Friday at (406) 243-4999
    - Email umonline-help@umontana.edu.
- Links to other technical support resources for students can be found at the following link: https://www.umt.edu/it/support/

Course Goals:

Upon successful completion of this two-course sequence, you will have conceptual and practical information regarding the anatomy and physiology of the human organism.

Course Objectives:

1) Gain an appreciation for the complementarity of anatomical form with physiological function.
2) Understand how the body systems work to maintain homeostasis.
3) Use critical thinking skills to predict the consequences of homeostatic imbalances on human form and function.

Course outcomes are based on the Human Anatomy and Physiology (HAPS) Learning Objectives:

1) Demonstrate understanding of chemical and biological principles and knowledge that serve as the foundation for understanding human anatomy and physiology.
2) Understand and analyze cellular processes governing development, growth and normal function of the human body.
3) Understand the processes involved with maintaining homeostasis and anticipate what may occur when homeostatic balance mechanisms are lost.
4) Demonstrate practical knowledge of human gross and microscopic anatomy using human cadavers and prepared histological slides.
5) Identify structures in the body and analyze their relationship with other structures.
6) Describe development, regeneration and normal function of body systems
7) Understand the cellular and physiological mechanisms that drive tissue formation and function.
8) Employ the scientific process for understanding principles of anatomy and physiology.
9) Analyze A&P observations and data and determine the potential physiological consequences.

Teaching Format:
As a response to Covid-19, this course will be taught in a blended format. All teaching material will be posted before class for students to watch on their own time, and in-person class time will be used to answer questions or review material.

Students will have 3 options for in-person lab attendance:
1. Attend the first hour of their assigned lab period
2. Attend the second hour of their assigned lab period
3. Do not attend any in-person labs (not recommended)

At the beginning of the semester, students will select their preference for attendance. Students may only enter the lab during this assigned time. If you need to change your lab attendance time mid-semester, you must contact your lab instructor.

The weekly format of the lab will be as follows:

Friday: Lab materials for the next week will be posted. The lab material for each week will include:

- 1 video lab lecture providing an introduction and overview to the week's material
- 3 videos on material that will be tested
- 3 study guides to accompany each video

Tuesday/Wednesday/Thursday: Students have the option to come in for in-person teaching

Course Information:

Student Responsibilities:

1) Students are expected to view lab materials prior to in-person labs.
2) Students are expected to log on to the course Moodle site regularly to download course materials and read updated course announcements.
3) Students are expected to monitor their email and online platforms for important course announcements.
4) Regular attendance at in-person labs is strongly recommended for successful completion of the course.
5) If absence from laboratory is necessary due to illness, it is your responsibility to obtain notes from another student.
6) Students are expected to be respectful to each other, the cadavers, teaching staff, and Dr. Minns. Students who fail to do so will be disciplined as described in the student conduct code.

Course Policies
Laboratory instructors follow academic policies as stated in the 2020-2021 UM Catalog. Students are responsible for being familiar with these policies.
http://www.umt.edu/catalog/

These policies include but are not limited to:

- Student Conduct (http://life.umt.edu/vpsa/student_conduct.php)
- Class attendance

- Credit/No Credit Grading
- Registrar deadlines
- Incomplete Grading Policy
- Audit: not permitted in this course

Plagiarism

- 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. (See Student Conduct Code section of this catalog.)
- 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.

Students with Disabilities:

If you are a student with a disability and wish to request reasonable accommodations for this course, contact me privately to discuss the specific modifications. Please be advised, I may request that you provide a verification letter from Disability Services for Students. If you have not yet registered with Disability Services, located in Lommasson Center 154, please do so in order to coordinate your reasonable modifications. For more information, visit the Disability Services website at www.umt.edu/disability.

Students with disabilities who would like reasonable accommodations must provide documentation to both Dr. Minns and the lab instructor the first week of class so that appropriate arrangements can be made. In the event that students decide after the semester begins that they would like to disclose their disability and request accommodations, students must provide documentation **at least 10 days prior to the upcoming** assessment so that instructors may prepare appropriately. It is the responsibility of students to make sure they understand the types of modifications available to them in both the lecture and laboratory portions of the course prior to assessments.

Cultural Leave Policy

UM has a Cultural and Ceremonial Leave Policy: “Cultural or ceremonial leave allows excused absences for cultural, religious, and ceremonial purposes to meet the student’s customs and traditions or to participate in related activities. To receive an authorized absence for a cultural, religious or ceremonial event the student or their advisor (proxy) must submit a formal written request to the instructor. This must include a brief description (with inclusive dates) of the cultural event or ceremony and the importance of the student’s attendance or participation. Authorization for the absence is subject to approval by the instructor. Appeals may be made to the Chair, Dean or Provost. The excused absence or leave may not exceed five academic calendar days (not including weekends or holidays). Students remain responsible for completion or make-up of assignments as defined in the syllabus, at the discretion of the instructor.”

Evaluation Methods:
Your course grade will be determined by your performance in the lab, according to the following evaluation methods:

Grading System:

Final Grades will be based upon a total of 400 points.

Lab Graded Activity	# of points toward grade
Lab Practical Exams (2x 100 pts)	200
Lab Quizzes (9x20pts, drop 1 lowest)	160
Case Studies	40
Lab Total	**400**

Grades will be calculated based upon the following system; grades will be rounded. (i.e. if a student earns 83.44%, their grade will round to 83% or a B-; if a student earns 83.45% their grade will be rounded to 84% or a B):

Grade	Percent of Total Points
A	94-100%
A-	90-93%
B+	87-89%
B	84-86%
B-	80-83%
C+	77-79%
C	74-76%
C-	70-73%
D+	67-69.4%
D	64-66%
D-	60-63%
F	59% and Below

Quizzes:
Quizzes will be administered using Moodle. Each week, the quiz will be available from Wednesday 2:00pm MST – Monday 11:59pm MST*. Quizzes will be 10 questions in length and there will be a 20-minute time limit. Students will have 1 attempt to take their quiz.
*Honors quizzes will be available Thursday 4:00pm MST – Tuesday 11:59pm MST.

These quizzes are **closed-book quizzes.** You are expected to complete your quizzes without notes, the internet, or any other outside help. Quizzes will be monitored for plagiarism and any misconduct will result in a 0 on the assignment and will be disciplined as described in the student conduct code.

Students with 1.5x or 2x DSS accommodations will be given extra time to complete their quiz. Your lab instructor will contact you regarding the additional time.

If you experience technical difficulties accessing the quiz or during the quiz, please contact your lab instructor as soon as possible.

Honors Lab (section 80)
The honors lab section will cover laboratory topics in more depth than the regular lab sections. Honors lab students are expected to be self-driven and to take advantage of additional learning resources. The distribution of laboratory points for quizzes and practicals will be the same for honors lab students as in the other laboratory sections and the same policies will be practiced. The students enrolled in the honors lab section will take a cumulative final practical exam and have to complete a project in place of the case studies.

Laboratory Human Anatomy and Physiology Society (HAPS) Learning Objectives and Required Pre-lab Exercises.
Students are expected to review the pertinent readings and complete Anatomy Revealed (AR) activities prior to their lab meeting to prepare for the labs.

Laboratory Practical Exams
Laboratory Instructors will discuss the breadth and scope of Laboratory Practical Examinations.
Two practical examinations each worth 100 points will be administered during the semester as a Moodle quiz. These exams will contain structures to be identified and students must demonstrate an understanding of the relationships between form and function. The format will be further described in the laboratory; some lab and lecture material may overlap.
*Please note that students enrolled in the Honors laboratory section will have a cumulative second practical laboratory exam.

Practical exams will be composed of 50 questions and have a 1hr 15 minute times limit. They will be available Tuesday at 8:00am MST and will close Wednesday at 11:59pm.*

*The honors lab practical will close on Thursday at 11:59pm.

Make-up Assignments:
NO “make-up” opportunities on missed assignments are available.

Assessment Review/Grade Disputes
Graded quizzes and practicals will be available for students to review for 1 week after the quiz is taken, and will remain accessible for 1 week after that date. *Any disputes regarding test items or examination grades must be communicated by email when appropriate within 1 week after the exam has been returned to the class or as announced on Moodle.* **Under no circumstances will examination grades be reconsidered after this window**. If a dispute should arise regarding the answer to a lecture or laboratory examination or other assessment item, the judgment of the faculty

member will be final. Due to grading deadlines, an announcement regarding the grade dispute window will be announced in the lab and in lecture with regard to the second lab practical.

Details on what must be included in a dispute will be provided by lab instructors.

Correspondence
An official UM student email address must be used for all correspondence.

Undergraduate Peer Leaders:
Each laboratory section will have at least two undergraduate peer leaders to assist with instruction. Peer advisors are not permitted to bring students to the lab outside of normal laboratory hours. They are not available for private tutoring.

Students interested in becoming a peer leader for future BIOH366 and BIOH371 courses may apply for a limited number of peer advisor positions in the Spring (the deadline is typically March 15). In order to be eligible to become a peer advisor, students must earn a grade of B or higher in BIOH365 and BIOH370 and must fill out an application. Promising candidates will be invited for an interview. Peer leaders are undergraduate students who enroll in BIOH480 or BIOH481 for assisting in laboratory instruction and BIOH463 and BIOH465 for assisting in lecture instruction. Peer leaders also assist in cadaver dissection. Interested candidates are encouraged to talk with Dr. Minns, their laboratory instructor, and their current peer advisors.

Access to the Laboratory Outside of Regularly Scheduled Class Hours
Access to the laboratory is only available during scheduled “open labs.” Your laboratory instructor will inform you of open lab times. Access outside of your scheduled lab and open labs is not permitted.

Students must sign-up to attend open labs. There will be a limited number of students allowed in the lab at any given time. You may not attend any open labs (or lab sections) that you have not signed up for.

Laboratory Specimen and Cadaver Information and Policies.
Much of your education in anatomy will result from a selfless donation of thoughtful individuals who voluntarily chose to donate their body to the Montana Body Donation Program that supports WWAMI education programs. *WWAMI (Washington, Wyoming, Alaska, Montana and Idaho) is a cooperative regional medical education program of the University of Washington School of Medicine that provides places for twenty Montana students per year in its entering medical student class. These twenty students take their first year of medical school at Montana State University and complete their studies at the University of Washington in Seattle and at community clinical training sites throughout the Northwest.*

Respect for the Cadavers:

These donated cadavers are gifts and must be treated with the dignity and respect they deserve. It is inappropriate to make disrespectful comments within and outside of the laboratory. You will observe professional conduct while in the lab and outside the lab. Naming of the cadavers, unnecessary horseplay, posing of the cadavers, etc WILL NOT BE TOLERATED. These cadavers are the result of gifts from fellow Montanans and their families who believed strongly in the benefit of health science education.

http://www.montana.edu/wwwwami/bodydonate.html

Rules for Cadaver Use in the Anatomy and Physiology Labs:

1) The cadavers used in this lab were obtained from the Montana Body Donation Program at Montana State University. Cadavers are donated to MSU according to state regulations. Persons donating their body receive no financial compensation; this is truly their ultimate gift. Hence it is imperative that proper respect be paid to the cadaver at all times.
2) Only students enrolled BIOH 366, BIOH 112 and teaching staff are allowed into the cadaver lab at any time. No minor children or other family members are to be brought to the open lab times. If you see someone in the lab who you believe is unauthorized, notify laboratory personnel and/or ask him/her to leave the lab.
3) Body parts, tissue, etc. must not be removed from the lab.
4) No cameras, camera phones or electronics with photo or video capability are allowed in the lab. Photography is prohibited.
5) Please be careful, the cadaver dissections will be used and material reviewed in other lab sections by other students. Keep the dissections moist and well covered when not working on that portion of the cadaver. Keep doors to lab closed and locked to keep security intact; students should police the lab.

Note: Special permission was granted by the Montana Body Donation Program to make teaching modules from the cadavers by designated teaching staff. **Absolutely no students may take pictures or videos in the lab.** Students are also prohibited from showing or distributing any images of the cadavers on the teaching modules to any people except the lab instructors, lab peer leaders, Dr. Minns, and students enrolled in BIOH366 during Fall 2020.

Laboratory Safety in the Anatomy and Physiology Labs

1) In case of an emergency, dial extension 4000 to report serious injuries. Phones are located throughout the Health Sciences Building. The Health Sciences main office is in room 104.
2) First Aid supplies are available in the supply room for HS 101 (the anatomy lab), HS 104 (the main office) and HS 403.
3) You are required to wear disposable gloves (nitrile or neoprene, latex gloves are not acceptable) at all times while working with the cadaver prosections. Cadavers are embalmed with a fluid containing propylene glycol, ethyl alcohol, phenol and formaldehyde. Physical contact of your skin and clothing should be avoided.
4) Wear old clothes and a long-sleeved lab coat while working with the cadaver. Lab coats should not be worn outside the lab.
5) No open-toes shoes or sandals are allowed in the lab. Wear shoes that cover your entire foot.
6) Contact lens wearers should be aware that chemical fumes can pass into gas permeable and soft lenses. These fumes irritate the cornea. Protective glasses (prescription or safety glasses) are recommended to protect against chemical splashes. Know the location of the eyewash station before you begin.

7) If you are pregnant, or believe you may be pregnant, you may NOT participate in the laboratories until you provide Dr. Minns with written documentation from your obstetrician that verifies an understanding of the chemicals to which you and your fetus are being exposed while in the presence of the cadavers.
8) No foods, drinks, gum or the application of makeup are allowed in the lab.
9) Respirators can be purchased for use in the lab, if desired.
10) Wash hands prior to leaving the lab.

COVID-19 Safety Protocols

1) Review the University of Montana policies and suggestions surrounding Covid-19. They can be found at the following link: https://www.umt.edu/coronavirus/coronavirus_faqs.php
2) You must wear a cotton face covering upon entering the lab (preferably one that has double-layered fabric).
3) You are strongly discouraged from touching their face or mask while in the lab. If you do, you must immediately wash your hands.
4) You must wash their hands before exiting the lab.
5) Maintain a 6-ft distance between other people in the lab at all times.
6) If you are experiencing any symptoms of Covid-19, contact your lab instructor and *stay home.* You are capable of completing this class with no loss of points remotely.
7) Keep in mind that your behavior and social patterns outside of class can make you more likely to come in contact with Covid-19. Please be conscientious of your social interactions and practice social distancing and good hygiene outside of the classroom.

Important Dates and Assigned Readings (this may be amended by Dr. Minns during the Semester)

Laboratory Specific Dates and Learning Outcomes

Laboratory Dates	Topic	Learning Outcomes	Course Resources
8/25-8/27	Lab1: Lab Orientation – Protocols and Procedures Introduction to Anatomical Terms, Gross and Surface Anatomy Cellular anatomy and physiology You must bring your own Nitrile gloves to the lab (not latex). (you can purchase these in the bookstore or at a local pharmacy).	HAPS Modules A,B, C: Describe the scope of studies in anatomy and physiology and be able to use and understand descriptive anatomical and directional terminology. Identify cellular structures and explain their respective functions.	Review the Corresponding Chapters in the McKinley Text and the Connect online activities, including Anatomy Revealed
9/1-9/3	Lab 2: Histology – Tissue Form and Function The Integumentary System and Membranes	HAPS Module D: Describe the basic tissues of the body, their location and explain their function. HAPS Module E: Identify and describe the major gross and microscopic anatomical component of the integumentary system and describe the functions of this system.	Review the Corresponding Chapters in the McKinley Text and the Connect online activities, including Anatomy Revealed
9/8-9/10	Lab 3: Bone – Histology Classification and types of osseous tissue The Axial Skeleton and its landmarks Fetal Skeletons	HAPS Modules E, F Identify and describe the major gross and microscopic anatomical components of the skeletal system and explain their functional roles in osteogenesis, repair and body movement.	Review the Corresponding Chapters in the McKinley Text and the Connect online activities, including Anatomy Revealed

9/15-9/16	Lab 4: Appendicular Skeleton and its landmarks	HAPS Mod G, H Identify and describe the major gross and microscopic anatomical components of the muscular system and explain their functional roles in body movement, maintenance of posture and heat production. Identify and describe the major gross and microscopic anatomical components of the nervous system and explain their functional roles in communication, control and integration.	Review the Corresponding Chapters in the McKinley Text and the Connect online activities, including Anatomy Revealed
9/22-9/23	Lab 5: Articulations and Movement		Review the Corresponding Chapters in the McKinley Text and the Connect online activities, including Anatomy Revealed
9/29-10/1	Lab 6: Muscles 1 Histology and Microanatomy Identification (ID) and Origin, Insertion, and Action (OIA) and innervation of the muscles of gluteal compartment and lower extremity		Review the Corresponding Chapters in the McKinley Text and the Connect online activities, including Anatomy Revealed (*You must be able to ID, define the origin, insertion, action and innervation of all muscles from Lab 6 Objectives and assigned readings; please use the tables in McKinley to help with your OIAs)
10/6-10/8	**Lab Practical #1**	Covers Labs 1-6	Bring Gloves; Missed Lab Practicals CANNOT be made up.
10/13-10/15	Lab 10: 7: Muscles 2 ID and OIA and innervation of the muscles the upper limb, anterior thorax and extrinsic back muscles	HAPS Mod G, H Identify and describe the major gross and microscopic anatomical components of the muscular system and explain their functional roles in body movement, maintenance of posture and heat production. Identify and describe the major gross and microscopic anatomical components of the nervous system and explain their functional roles in communication, control and integration.	Review the Corresponding Chapters in the McKinley Text and the Connect online activities, including Anatomy Revealed (*You must be able to ID, define the origin, insertion, action and innervation of all muscles from Lab 7 Objectives and assigned readings; please use the tables in McKinley to help with your OIAs)
10/20-10/22	Lab 8: Muscles 3 ID, OIA and innervation of the muscles of the head, neck, face and intrinsic muscles of the back		Review the Corresponding Chapters in the McKinley Text and the Connect online activities, including Anatomy Revealed (*You must be able to ID, define the origin, insertion, action and innervation of all muscles from Lab 8 Objectives and assigned readings; please use the tables in McKinley to help with your OIAs)

10/27-10/29	Lab 9: Nervous Tissue Histology Brain Anatomy and Physiology Cranial Nerves – Identification and function		Review the Corresponding Chapters in the McKinley Text and the Connect online activities, including Anatomy Revealed
11/3-11/5	Lab 10: Spinal Cord: ANS organization and PNS branching, Brachial Plexus	HAPS Mod G, H Identify and describe the major gross and microscopic anatomical components of the muscular system and explain their functional roles in body movement, maintenance of posture and heat production. Identify and describe the major gross and microscopic anatomical components of the nervous system and explain their functional roles in communication, control and integration.	Review the Corresponding Chapters in the McKinley Text and the Connect online activities, including Anatomy Revealed
11/10-11/11	Lab 11: Special Senses/	HAPS Module I Identify and describe the major gross and microscopic anatomical components of the eye and ear and explain their function roles in vision, hearing and equilibrium.	Review the Corresponding Chapters in the McKinley Text and the Connect online activities, including Anatomy Revealed

11/17-11/19	**Lab Practical #2**	Covers Labs 7-11	Bring Gloves; Missed Lab Practicals CANNOT be made up.

Quiz Dates:

Students should not rely on instructors or peer leaders to inform them of every quiz deadline. Students are responsible for keeping track of these deadlines and turning in assignments on time. If quizzes, case studies, or practicals are not taken by the assigned deadlines, students will receive a 0 on the assignment.

Regular Lab Quiz Dates:

Lab Quiz	Quiz Opens	Quiz Closes
1	8/26 at 2:00pm MST	8/31 at 11:59pm MST
2	9/2 at 2:00pm MST	9/7 at 11:59pm MST
3	9/9 at 2:00pm MST	9/14 at 11:59pm MST
4	9/16 at 2:00pm MST	9/21 at 11:59pm MST
5	9/23 at 2:00pm MST	9/28 at 11:59pm MST
Practical 1	**10/6 at 8:00am MST**	**10/7 at 11:59pm MST**
7	10/14 at 2:00pm MST	10/19 at 11:59pm MST
8	10/21 at 2:00pm MST	10/26 at 11:59pm MST
9	10/28 at 2:00pm MST	11/2 at 11:59pm MST
10	11/4 at 2:00pm MST	11/9 at 11:59pm MST
Practical 2	**11/17 at 8:00am MST**	**11/18 at 11:59pm MST**

*Lab 6 and Lab 11 will not have quizzes. They will be tested on Practical 1 and Practical 2 respectively.

Honors Lab Quiz Dates:

Lab Quiz	Quiz Opens	Quiz Closes
1	8/27 at 4:00pm MST	9/1 at 11:59pm MST
2	8/3 at 4:00pm MST	9/8 at 11:59pm MST
3	9/10 at 4:00pm MST	9/15 at 11:59pm MST

4	9/17 at 4:00pm MST	9/22 at 11:59pm MST
5	9/24 at 4:00pm MST	9/29 at 11:59pm MST
Practical 1	**10/6 at 8:00am MST**	**10/8 at 11:59pm MST**
7	10/15 at 4:00pm MST	10/20 at 11:59pm MST
8	10/22 at 4:00pm MST	10/27 at 11:59pm MST
9	10/29 at 4:00pm MST	11/3 at 11:59pm MST
10	11/5 at 2:00pm MST	11/10 at 11:59pm MST
Practical 2	**11/17 at 8:00am MST**	**11/19 at 11:59pm MST**