




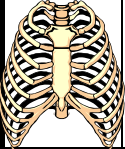







## Human Anatomy (Biol 2320) Schedule of Classes, Spring 2021



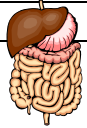


<u>Week</u>	<u>Day</u>	<u>Subject</u>	<u>Reading in Booklet</u>	<u>Corresponding Reading in Text</u>
1 	Mon, Jan 18	<b>HOLIDAY</b> (Normally Team A, last name A-G, would attend <b>if</b> they desired, but unfortunately <b>this Monday is a holiday</b> )	----	----
	Wed, Jan 20	Brief Introduction (read the syllabus!) and A First Look at Anatomy (Team B, last name H-N, can attend <b>if</b> they desire)	3-13	1-22
	Fri, Jan 22	A First Look at Anatomy (Team C, last name O-Z can attend <b>if</b> they desire) Optional Review Sessions at 1:25 PM in room ??? and 3:30 PM in room ???	3-13 ----	1-22 ----
	Mon-Fri	“Exploring the Reproductive System #1” at Canvas Site	306-307	837-839
	Mon-Fri	<b>NO LABS THIS WEEK because of the Monday Holiday!</b>	----	----
2 	Mon, Jan 25	Integumentary System (Team A, last name A-G can attend <b>if</b> they desire)	14-24	50, 118-145
	Wed, Jan 27	Integumentary System (Team B, last name H-N, can attend <b>if</b> they desire)	14-24	50,118-145
	Fri, Jan 29	Cartilage and Bone Connective Tissue (Team C, last name O-Z, can attend <b>if</b> they desire *and this pattern continues on M, W, and F for the rest of the semester) Optional Review Sessions at 1:25 PM in room ??? and 3:30 PM in room ???	25-39 ----	146-172 ----
	Mon-Fri	“Exploring the Reproductive System #2” at Canvas Site	308-311	838-845
	Mon-Fri	<b>Laboratory #1:</b> Introduction and Video (no lab points, but questions in upcoming lab quiz and final)	338-340	----
3 	Mon, Feb 1	Cartilage and Bone Connective Tissue	25-39	146-172
	Wed, Feb 3	Axial Skeleton: Skull	40-54	173-203
	Fri, Feb 5	Axial Skeleton: Skull Optional Review Sessions at 1:25 PM in room ??? and 3:30 PM in	40-54 ----	173-203 ----

		room ???		
	Mon-Fri	“Exploring the Reproductive System #3” at Canvas Site	312-316	845-847
	Mon-Fri	<b>Laboratory #2:</b> Examination of Axial Skeleton (10 lab points possible)	341-344	174-214
4	Mon, Feb 8	Axial Skeleton: Vertebral Column <u>and</u> <b>EXAM #1</b> on-line via Proctorio <b>(Last day to drop without notation on transcript)</b>	55-66 -----	204-219 -----
	Wed, Feb 10	Axial Skeleton: Vertebral Column	55-66	204-219
	Fri, Feb 12	Appendicular Skeleton: Pectoral Girdle and Upper Limbs Optional Review Sessions at 1:30 PM in room ??? and 3:30 PM in room ???	67-75 -----	220-231 -----
	Mon-Fri	“Exploring the Reproductive System #4” at Canvas Site	317-318	847-849
	Mon-Fri	<b>Laboratory #3:</b> Examination of Appendicular Skeleton (10 lab points possible)	345-347	221-254
5	Mon, Feb 15	<b>HOLIDAY</b> 	-----	-----
	Wed, Feb 17	Appendicular Skeleton: Pelvic Girdle and Lower Limbs	76-86	113, 230-251
	Fri, Feb 19	Articulations: General Features Optional Review Sessions at 1:25 PM in room ??? and 3:30 PM in room ???	87-99 -----	252-265 -----
	Mon-Fri	“Exploring the Reproductive System #5” at Canvas Site	319	849-850
	Mon-Fri	<b>NO LABS THIS WEEK because of the Monday Holiday!</b>	-----	-----
6	Mon, Feb 22	Articulations: General Features	87-99	252-265
	Wed, Feb 24	Articulations: Selected Articulations	100-109	114, 265-286
	Fri, Feb 26	Articulations: Selected Articulations Optional Review Sessions At 1:25 PM in room ??? and 3:30 PM in room ???	100-109 -----	114, 265-286 -----
	Mon-Fri	“Exploring the Reproductive System #6” at Canvas Site	320-321	850-851
	Mon-Fri	<b>Laboratory #4:</b> Examination of Muscles of Upper Body (10 lab points)	348-349	261-265, 321-373
7	Mon, Mar 1	Muscle Tissue and Organization	110-119	288-291, 305-311, 315
	Wed, Mar 3	Axial Muscles	120-126	300, 321-350
	Fri, Mar 5	Appendicular Muscles Optional Review Sessions at 1:25 PM in room ??? and 3:30 PM in room ???	127-138 -----	352-393 -----

	Mon-Fri	“Exploring the Reproductive System #7” at Canvas Site	322	851, 854
	Mon-Fri	<b>LAB QUIZ #1 and Laboratory #5:</b> Examination of Muscles of Lower Body and Suturing of Skin (10 lab points possible)	350-354	374-389
8	Mon, Mar 8	Appendicular Muscles <u>and</u> <b>EXAM #2</b> on-line via Proctorio	127-138	352-393
	Wed, Mar 10	Nervous Tissue	139-144	412-434
	Fri, Mar 12	<b>NO CLASS DAY</b>	-----	-----
	Mon-Fri	“Exploring the Reproductive System #8” at Canvas Site	323	851, 854
	Mon-Fri	<b>NO LABS THIS WEEK because Friday is a “no class day”</b>	-----	-----
9	Mon, Mar 15	Brain	145-166	436-468, 524, 527-528
	Wed, Mar 17	Brain	145-166	436-468, 524, 527-528
	Fri, Mar 19	Cranial Nerves Optional Review Sessions at 1:25 PM in room ??? and 3:30 PM in room ???	167-179 -----	469-481 -----
	Mon-Fri	“Exploring the Reproductive System #9” at Canvas Site	324-325	855-857
	Mon-Fri	<b>Laboratory #6:</b> Articulations and Circulatory System (10 lab points possible)	355-360	265-281, 651-717
10	Mon, Mar 22	Cranial Nerves	167-179	469-481
	Wed, Mar 24	Spinal Cord and Spinal Nerves <b>Last day to drop with a “W” on transcript</b>	180-191	483-512
	Fri, Mar 26	Spinal Cord and Spinal Nerves Optional Review Sessions at 1:25 PM in room ??? and 3:30 PM in room ???	180-191 -----	483-512 -----
	Mon-Fri	“Exploring the Reproductive System #10” at Canvas Site	326-327	857-858
	Mon-Fri	<b>Laboratory #7:</b> Examination of Respiratory Digestive, Reproductive, Urinary, and Nervous Systems (10 lab points possible)	361-364	436-512, 742-772, 774-810, 812-835, 837-872
11	Mon, Mar 29	Heart	194-209	651-656
	Wed, Mar 31	Heart	194-209	651-656
	Fri, Apr 2	Vessels and Circulation #1 Optional Review Sessions at 1:25 PM in room ??? and 3:30 PM in room ???	210-223 -----	678-706 -----
	Mon-Fri	“Exploring the Reproductive System #11” at Canvas Site	328	858
	Mon-Fri	<b>LAB QUIZ # 2 and Laboratory #8:</b>	365-371	395-410

		Examination of Surface Anatomy and Student Evaluations of TAs/UAs (10 lab points possible)		
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12	Apr 5	Vessels and Circulation #2 <u>and</u> <b>EXAM #3</b> on-line via Proctorio	224-237	687-717
	Wed, Apr 7	Vessels and Circulation #2	224-237	687-717
	Fri, Apr 9	<b>NO CLASS DAY</b>	-----	-----
	Mon-Fri	“Exploring the Reproductive System #12” at Canvas Site	329-331	860-862
	Mon-Fri	<b>NO LABS THIS WEEK because Friday is a “no class day”</b>	-----	-----
13	Mon, Apr 12	Respiratory System	238-256	742-772
	Wed, Apr 14	Respiratory System	238-256	742-772
	Fri, Apr 16	Digestive System #1 Optional Review Sessions at 1:25 PM in room ??? and 3:30 PM in room ???	257-269 -----	774-791 -----
	Mon-Fri	Exploring the Reproductive System #13 at Canvas Site	332-333	862-863
	Mon-Fri	<b>Laboratory #9:</b> Examination of Cranial Nerves (10 lab points possible). <b>Confirm with your TA your points earned to date in lab!</b>	372-376	469-477
14	Mon, Apr 19	Digestive System #1	257-269	774-791
	Wed, Apr 21	Digestive System #2	270-285	791-810
	Fri, Apr 23	Digestive System #2 Optional Review Sessions at 1:25 PM in room ??? and 3:30 PM in room ???	270-285 -----	791-810 -----
	Mon-Fri	“Exploring the Reproductive System #14” at Canvas Site	334-335	863-865
	Mon-Fri	<b>Lab Review Session for Final Exam</b> (no lab points possible)	-----	-----
15	Mon, Apr 26	Urinary System	286-298	812-835
	Wed, Apr 28	<b>Interim Day (NO classes)</b>	-----	-----
	Mon-Tues	“Exploring the Reproductive System #15” at Canvas Site	336-337	866-872
	Mon-Fri	<b>NO LABS THIS WEEK!</b>	-----	-----
16	Monday, May 3	<b>Comprehensive Final Exam</b> On-line via Porctorio	-----	-----
		Student performance in previous years	377-378	-----
		Example exam	379-393	-----

**Human Anatomy**  
**Biol 2320 (4 credits)**  
**Spring 2021**

- A. Instructor: Dr. Andy Anderson** (Please call me Andy!)  
Address: Biology Department  
BNR 327  
Utah State University  
Logan, UT 84322-5305  
Phone: 797-1913 (If I'm not in, leave a message on my voice mail.)  
E-mail: [andy.anderson@usu.edu](mailto:andy.anderson@usu.edu) (this personal email gets messages to me much faster that when students contact me through Canvas, so use this personal email)
- B. Teaching Assistants (TAs), Undergraduate Aides (UAs), Tutors, and Supplemental Instructor (SI):**
1. There are numerous TAs, several Tutors, and many volunteer undergraduate lab aides assigned to this course. Their names and office hours will be provided during the first days of class.
  2. A Supplemental Instructor (SI) has been employed by USU to help students in this class with regular meetings throughout each week.
  3. Historically, students who utilize the TAs, UAs, Tutors, and SI faithfully earn higher grades!
- C. Meeting times:**
1. **Lecture** (Index # 11268) – This class meets on Mondays, Wednesdays, and Fridays for 50 minutes of lecture from 2:30-3:20 PM in ESLC 130. All lectures are recorded and posted at the Canvas site after they occur. The lectures are “hybrid face-to-face.” This means that Team A, last name A-G attends on Mondays if they desire; Team B, last name H-N, attends on Wednesdays if they desire; and Team C, last name O-Z, attends on Fridays if they desire. There are optional review sessions every Friday at 1:25 PM in ??? and 3:30 PM in ??? **As you well know by now, social distancing in these rooms is expected.**
  2. **Laboratory** – There are 17 laboratory required offerings which meet in **BNR 329/331** at the times indicated below. The labs are “traditional face-to-face”, which means students show up in person. Students are **required** to sign up for **one** laboratory section per week. Please go to the laboratory you regularly attend! **Don't move around!** If you do need to attend a different lab on a particular week, you will need to email me personally for permission (this is because you are earning points in the labs and they need to be recorded by your TA!). Normal social distancing is simply not possible in the labs (which is why they are “traditional face-to-face”), but students will wear personal protective equipment (PPE) and both lab rooms operate with negative pressure.

Index #	Section	Day	Time
11270	501	Monday	08:30 am – 10:20 am
11271	502	Monday	10:30 am – 12:20 pm
11272	503	Monday	12:30 pm – 02:20 pm
11274	504	Monday	03:30 pm – 05:20 pm
11275	505	Monday	05:30 pm – 07:20 pm
11276	506	Tuesday	03:30 pm – 05:20 pm
11277	507	Tuesday	05:30 pm – 07:20 pm

11279	508	Wednesday	08:30 am – 10:20 am
11280	509	Wednesday	10:30 am – 12:20 pm
11281	510	Wednesday	12:30 pm – 02:20 pm
11282	511	Wednesday	03:30 pm – 05:20 pm
11283	512	Wednesday	05:30 pm – 07:20 pm
11284	513	Thursday	03:30 pm – 05:20 pm
11285	514	Thursday	05:30 pm – 07:20 pm
11287	515	Friday	08:30 am – 10:20 am
11288	516	Friday	10:30 am – 12:20 pm
11289	517	Friday	12:30 pm – 2:20 pm

**D. Required Materials for Biol 2320:**

1. “Human Anatomy”- **5th edition**, 2017, by McKinley, O’Loughlin, and Pennefather-O’Brian. This text is available at the USU Bookstore. The printed copy is now only offered by the publisher as a 3-hole punched loose-leaf version. **An electronic copy of the 5<sup>th</sup> edition of the textbook is OK as well.**
  - a. This text comes with VERY useful OPTIONAL on-line resources. When you purchase your new text there will be “Connect” codes packaged in the book that will allow you access to these resources when you go to the web site  
**<http://connect.mheducation.com/class/a-anderson-smartstart-course>**
2. Course booklets (2 volumes) which contain all needed outlines and an example first exam. These booklets can be bought from the **USU Bookstore**.
3. Lab coat that comes down to mid-thigh (just above the knees). You will need to purchase these yourself and take them home to be washed.

**E. Optional Materials for Biol 2320:**

1. Optional “Connect” feature of textbook cited above
2. I *used* to recommend that students buy a medical dictionary, but *now* most students can simply use their smart phones to look things up.

**NOTE:**

It is recommended (but not required) that students have one other anatomy text available for study. An extra text will often serve to clarify points which are confusing, or reinforce those which are considered important. At the request of previous students, I will list a few good books you could order from Amazon.com if you have more money than you know what to do with:

- a. “Atlas of Human Anatomy” by Frank Netter.
- b. “McMinn’s color Atlas of Human Anatomy” by Abrams, Hutchings, and Marks.

**F. Course Booklets:**

1. For each lecture in this course (and for the “Exploring the Reproductive System” presentations) the student is provided with an outline of the subjects to be discussed that day. These outlines are designed to guide your participation during the lectures and also to guide you in your reading of the textbook. These outlines typically have articles attached on which you will be tested. **All of these outlines and articles have been collected into course booklets (course readers) for your use.**
  - a. If there is information in your textbook that is not mentioned in class, or not mentioned in the course booklet, it will not be on the exam.
    - 1) You are encouraged to read supplemental information in your text, but you will only be tested on what is cited in the booklet or in our class discussions.

- 2) Note that the booklet often requires you to read Clinical Views in the text (i.e. - Read the clinical view on pages 18-19 about medical imaging procedures)

### G. Lectures and Images at Canvas site

1. The audio recording of the lectures and review sessions, and the images used, will be available on the Canvas site shortly after the lectures and reviews are over (this process works about 95% of the time). You can access them by going to the CANVAS site for this course. **This means that coming to the lecture hall to listen to the lectures is NOT required. As long as you master the current information, I am fine.** The lectures and images from the last time this course was taught (spring 2020) will be there as well.
2. **“Exploring the Reproductive System” at Canvas site**
  - a. There are 15 required “Exploring the Reproductive System” presentations at the Canvas site.
  - b. You are required to listen to one of these very short presentations every week of the semester (except for Spring Break).
  - c. The notes for these “Exploring the Reproductive System” presentations are in your booklet of lecture notes.
  - d. Questions from these “Exploring the Reproductive System” presentations, the notes, and the supplemental readings for each will appear on your regular exams **and** on your Final Exam.
  - e. You must listen to one of these “Exploring the Reproductive System” presentations every week, and read the designated supplemental readings, to be prepared for your exams.

### H. Unacceptable Classroom Behavior

Since a significant goal of this class is to prepare each of you for your upcoming exams, then behavior that disrupts the classroom environment will be discouraged.

1. Once class has started, **cell phones should be silenced** and no ring tones, conversations, or text messaging are permitted.
2. Once class has started, **talking or whispering among students is strongly discouraged.** If you need to talk, please leave the class and conduct your conversation outside. If students persist in talking among themselves during class they will be invited to my office and given a written warning. If they persist in talking after this warning, they will be asked to leave the room so other students can benefit from the limited amount of class time available.
3. Use of laptop computers in class is acceptable, provided it is utilized for notes or materials used in this class. **It is not acceptable to use your computer in class for recreational purposes or for doing work for a different class.** When you come to this class it is expected that you will focus your attention on this class and not engage in computer activities that detract from the classroom experience or that will distract your classmates. If the problem persists, you will be requested to cease your computer activities.

### I. Examinations and Two Lab Quizzes for Biol 2320

1. There will be three midterm lecture exams of 100 points each and a comprehensive final exam (over everything except articles used in earlier exams) worth 200 points. ALL of the exams count and you cannot miss any of them. **The exams will be offered on-line via Proctorio at the Canvas site on the same day as we have our lecture for the next section.** The lecture notes, **class discussions**, the “Reproduction Revealed” presentations, handouts, laboratories, and occasional articles distributed in class will be used to formulate exam questions.

3. **There will be two lab quizzes (50 points each) presented in the laboratory face-to face that will be prepared and administered by the TAs/UAs.**
4. Students' grades will be calculated using all three of the 50-minute exams (they ALL count and you can't drop one!), the lab quizzes, the points earned in lab (see below), and the final.
5. An example first exam is included at the back of the course booklet. While the questions will be different this year because we are going on-line, the idea is the same. **This year, the questions will ALL be multiple-choice to facilitate grading due to the on-going Covid-19 pandemic.**
6. Those students who have difficulty with the example first exam and example questions in the book should see the instructor **as soon as possible** to arrange free tutoring with the TAs, SI, and UAs.
7. Those students who ("heaven forbid!") score less than 70% on the first two exams **should seriously seek intensive tutoring or drop the class.**
8. The letter grade is based on the percentage of total points earned on the three 50-minute exams (100 points each), the two lab quizzes (50 points each), the points earned in lab for the pre-lab quizzes and attendance (80 points possible) as cited below, and the comprehensive final exam (200 points). **THERE IS NO EXTRA CREDIT OR SPECIAL PROJECTS TO IMPROVE YOUR GRADE.**

**J. Points Earned in Lab for Pre-Lab Quizzes and Attendance for Biol 2320 (80 points possible)**

1. A recent feature of this course is the ability of students to earn 5 points for a pre-lab quiz at the start of each of the 8 active labs and an additional 5 points for attendance.
2. The pre-lab quiz will be 5 questions over the lab that is to be done that day and it will start at 3 minutes after the scheduled lab starting time! It will only last for about 5 minutes.
  - a. This pre-lab quiz accomplishes two things: it insures you are to your lab on time and it makes the TAs and UAs happy because you have looked over the lab before arriving and ready to answer the pre-lab questions.
    - 1) If a student arrives in the lab too late to take the pre-lab quiz, they will NOT be allowed to take the pre-lab quiz. Remember one of the purposes for this pre-lab quiz is to have student arrive on-time!
  - b. **Each TA** in each of the respective labs will create 5 straightforward questions for the students to answer, print up this pre-lab quiz before lab, score it, and keep a record of points earned (5 points per pre-lab quiz) to be turned into to me at the end of the semester.
    - 1) The scored pre-lab quizzes can be returned to the students at the next lab.
3. **Each UA** will take attendance (worth 5 points) at some point in the lab (usually after one hour) and give that list to the **TA** for recording.
  - a. So, the **TA** will be keeping a permanent record of the points earned from the pre-lab quiz and from attendance (with the help of the UA).



## K. Grading Chart

Actual Points Earned	Percentage of Total Points Earned	Grade
629-680	93-100	A
609-628	90-92	A-
581-608	86-89	B+
561-580	83-85	B
541-560	80-82	B-
513-540	76-79	C+
493-512	73-75	C
473-492	70-72	C-
445-472	66-69	D+
405-444	60-65	D
404 or less	59 or less	F

8. Up until the last office hours of the semester (usually the week before finals) you are invited to see me, or the TAs, to view the exam keys and debate your scores. **After my last office hour, I will only discuss the final exam with you, not your scores on earlier tests or quizzes.**

## L. Course Goals:

1. The main goal of this course is to give students a basic understanding and working knowledge of the structure of their own bodies. Numerous medical examples, and a few athletic stories, will be provided to illustrate the importance of the systems presented.
2. It is expected that upon successful completion of this course students will be able to effectively apply the knowledge gained in more advanced courses, in their careers, and in their daily lives.

## M. Student's Responsibilities:

1. The student is expected to listen to all lectures and attend all laboratories (take the pre-lab quizzes and stay to do the work), take supplemental notes, read the assigned readings, refer to suggested references as needed and achieve a cumulative score of greater than 75% on the exams.
2. In the event there is some difficulty, it is the **student's responsibility** to contact the instructor, TAs, SI, Tutors, or UAs for advice or assistance. Free tutoring is available with the TAs, Tutors, and UAs during their published office hours.

## N. Instructor's Responsibilities:

1. The instructor is expected to attend all lectures, read the assigned reading, present supplemental articles, and prepare examinations which are fair and representative of the material covered. The instructor will also be available at posted office hours to answer **specific** student questions and provide needed assistance.

## O. Teaching Assistants', Tutors, and Undergraduate Aides' Responsibilities:

1. Typically there are numerous departmental TAs, Tutors, and UAs assigned to this course each semester. These TAs, Tutors, and UAs will come to the lectures as needed so that they

will be qualified tutors for each of your exams. Some of the UAs will attend the review sessions each week where the students are quizzed by the UAs with questions the UAs have prepared. The TAs and UAs will assist the instructor in writing the lecture exams and lab quizzes. The TAs and UAs will have published office hours to provide help to interested students. The TAs will have the answer keys after each exam for use in advising students (students may NOT write anything down! No writing, recording instruments, or cell phones in your hands! **If a TA, Tutor, or UA fails to show up at his/her office hour, please let me know!** This is part of their assignment to me and many of the UAs are getting academic credit for their work.

2. The TAs and UAs are also expected to attend their individual laboratories, have all the necessary materials available (including a printed pre-lab quiz for the active labs) and be knowledgeable about the scheduled lab exercises. The TAs and UAs will write and administer two lab quizzes, administer the pre-lab quizzes, and record attendance. After correcting these quizzes, they will turn them in to Andy for grade recording and posting.

**P. Supplemental Instructor's (SI) Responsibilities:**

1. USU has hired an undergraduate student to serve as an SI to assist you in getting a good grade in this challenging course. The SI will have regular meetings throughout the week and will have prepared practice questions of the same style as you may expect on your upcoming exams and quizzes. The end-of-the-semester data I am provided by the SI program clearly reveals it improves the performance of most of those students who participate.

**Q. Library References:**

1. A copy of the course textbook "Human Anatomy", 5th edition, by McKinley, O'Loughlin, Pennefather-O'Brien, and Harris is on reserve at the Media Collections.
2. Check the subject index in the Library to find additional useful books on anatomy and physiology.

**R. Below you will find a University statement on Academic Honesty.**

1. **DO NOT REMOVE ANY EXAMINATION MATERIALS FROM THE CLASSROOM OR LABORATORY ON EXAM DAYS!**
2. **DO NOT COPY OR REMOVE ANY EXAMINATION MATERIAL FROM THE TEACHING ASSISTANTS' OR SI'S OFFICES!**
3. If you fail to follow these rules, I will make every effort to subject the offender to the disciplinary procedures designated by the University.

***Honor Pledge***

Students will be held accountable to the Honor Pledge which they have agreed to: "I pledge, on my honor, to conduct myself with the foremost level of academic integrity."

***Academic Dishonesty***

The Instructor of this course will take appropriate actions in response to Academic Dishonesty, as defined the University's Student Code:

Acts of academic dishonesty include but are not limited to:

1. Cheating: (1) using or attempting to use or providing others with any unauthorized assistance in taking quizzes, tests, examinations, or in any other academic exercise or activity, including working in a group when the instructor has designated that the quiz, test, examination, or any other academic exercise or activity be done "individually"; (2) depending on the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; (3) substituting for another

student, or permitting another student to substitute for oneself, in taking an examination or preparing academic work; (4) acquiring tests or other academic material belonging to a faculty member, staff member, or another student without express permission; (5) continuing to write after time has been called on a quiz, test, examination, or any other academic exercise or activity; (6) submitting substantially the same work for credit in more than one class, except with prior approval of the instructor; or (7) engaging in any form of research fraud.

2. Falsification: altering or fabricating any information or citation in an academic exercise or activity.
3. Plagiarism: representing, by paraphrase or direct quotation, the published or unpublished work of another person as one's own in any academic exercise or activity without full and clear acknowledgment. It also includes using materials prepared by another person or by an agency engaged in the sale of term papers or other academic materials.

Full text of the Student Code available at available at available at  
<http://www.usu.edu/studentservices/pdf/StudentCode.pdf>:

#### **S. Students with Disabilities**

1. Students with physical, sensory, emotional or medical impairments may be eligible for reasonable accommodations in accordance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973. All accommodations are coordinated through the Disability Resource Center (DRC) in Room 101 of the University Inn, 797-2444, 797-0740 TTY, or toll free at 1-800-259-2966. Please contact the DRC as early in the semester as possible. Alternate format materials (Braille, large print or digital) are available with advance notice.

#### **T. University policy on withdrawals and incomplete grades.**

1. I direct your attention to the current USU policy on dropping courses and incomplete grades in the on-line Catalog, under Registration.
  - a. You will note that “incomplete grades” are only given for conditions beyond the students’ control and not due to poor performance. A student who receives an incomplete must retain all the scores they earned up to the date of the incomplete and later will **ONLY** be allowed to finish the remaining quizzes or exams.

#### **U. Notice on lab fees (\$95)**

1. As part of your registration for this class you were required to pay a “lab fee” of \$95. This fee is used by me to obtain the cadavers (currently a service fee of \$2,100 each) and lab supplies (bags, labels, markers, models, containers, preservative chemicals, etc). All of your lab fees are used to enhance your learning opportunities in this course and to help your TAs, UAs, and your instructor, to hopefully make it easier for you to succeed in this challenging subject.

#### **V. Laboratory Safety**

1. After death bodies will begin to decompose and bacteria, mold and fungi can begin to grow on tissue. In order to slow down these events, bodies are treated in a process called “embalming.” Embalming involves injecting specific fluids into the arteries (often the carotid artery) where they will spread through the arteries, capillaries and veins to the organs and tissues of the body, aiding in preservation. The primary embalming chemical is formaldehyde. Formaldehyde functions by cross-linking proteins. It is toxic and a known

carcinogen, meaning there is evidence that exposure to this chemical can increase susceptibility to cancer. Cadavers arrive at our lab with formaldehyde perfused within the cadaver. While in our lab, cadavers will be regularly doused with a wetting solution. Wetting solutions can contain toxic chemicals meant to inhibit microbial growth on the cadavers. Cadavers are placed on specially designed tables with built in ventilation that vacuums away fumes and odors, thus minimizing exposure (the lab and the connecting classroom are negative pressure rooms!). Besides specialized venting, exposure to toxic chemicals in the laboratory is minimized by the use of protective clothing.

The following use of personal protective gear is expected of anyone entering and participating in the laboratory:

- Fully closed shoes that protect the entire foot
- Dress or pants that cover the entire leg
- Nitrile gloves, provided in the lab, which prevent toxic chemicals from reaching your skin
  - All gloves are disposed of in trash cans after removal.
  - Wash your hands before you leave the laboratory with the soap and water provided in the lab.
- $\frac{3}{4}$  length lab coat (mid-calf length) that is fastened shut (you will purchase this yourself and take it home to be washed.
- Mask (you can wear your own mask)
- Safety goggles/glasses (provided in the lab)

If for any reason you feel hot or faint, it is important to tell someone and sit down on the floor (or lie down) immediately! If instead you try to walk out of the lab you risk passing out and suffering a bad fall onto a hard floor!

Although data is inconclusive, exposure to the chemicals while participating in the lab (more so if one is participating in active dissections) may be harmful to a developing fetus. Therefore, it is advisable to pregnant women (especially in the first trimester) or those who plan on becoming pregnant during the semester to consider this issue when determining the timing of taking the class. If the course must be taken at this time, please discuss options with the Instructor. If there are concerns regarding this issue that the Instructor cannot answer, please contact Rachel Curry in USU's Environmental Health and Safety Office (435-797-2892, [rachel.curry@usu.edu](mailto:rachel.curry@usu.edu)), or seek advice from your obstetrician.

## **General Information for Interested Students Biol 2320**

Some students may be interested in taking further courses with me. This sheet will provide that information.

### **A. Courses Taught by D. Andy Anderson**

1. Fall Semester 2021
  - a. Elementary Microbiology (Biol 2060) 4 credits
  - b. Human Dissection (Biol 4000) 1 credit
  
2. Spring Semester 2022
  - a. Human Anatomy (Biol 2320) 4 credits
  - b. Bioethics (Biol 3100) 3 credits
  - c. Advanced Human Physiology (Biol 4600) 5 credits
  
3. Others
  - a. Independent Study (Biol 3760) 1-2 credits – available every semester
    - 1) Students earn credit by writing a term paper on a mutually agreed topic.
  - b. Teaching Internship (Biol 4710) 1 credit – available every semester
    - 1) This credit is available to students who wish to volunteer as a UA in a class they have previously excelled in. (Grade of “B” or better)

**B. Other Courses of Interest**

1. MCAT Prep Course (Biol 1030), 1 credit of pass/fail. This preparation course is only taught in spring by two successful premed students.
2. DAT Prep Course (Biol 1040), 1 credit of pass/fail. This preparation course is only taught in spring by two successful pre-dent students.