

To see the new Bell Schedule and CPT days for 2019-20, go to:

<http://www.conejousd.org/tohs>

or

<http://www.conejousd.org/Portals/19/usersdata/19-20%20Bell%20Schedule.pdf?ver=2019-07-22-073920-913>

**Course Title: Physiology-H 2019-20**

**Room: E8**

Period: 3

***General Announcements:***

* Course Materials: 2 college ruled notebooks
* Black permanent sharpie
* Blue/black pens
* Black pencil

# Semester II

***All assignments are due the next day unless specified otherwise!***

* Lunch time lab service (see me for details)
* Back to School Night: 9/11/19
* Ch 1 Overview of body systems PGP: 9/20
* Ch 4 Tissues PGP: 10/18

GUEST SPEAKERS for Health Science Major:

* Dr. Conover, Neuropsychology: TBA
* Dr. Leong (Pediatric cardiology): TBA
* PA-Shari Wadman: TBA
* Dr. McGregor (Optometry): TBA

# 2019-20 Semester 1 Assignments

|  |  |  |
| --- | --- | --- |
| Date | CW | HW |
| 8/21 | Intro: course website; share google Drive; Register in Schoology tonight: Access code: Textbook  Online: [**http://aris.mhhe.com**](http://aris.mhhe.com); class and lab  policy; email contact needed in gmail;  notebooks/materials; donations  HW/CW turn-in location and policy; attendance time  Tell me about you due tomorrow | get course policy and Flinn lab safety rules  signed by parents by tomorrow  2 college ruled 100 sheets Lab notebooks  needed tomorrow |
| 8/22 | Safety lecture;  Locate safety features in the lab and record them on a paper (save it for the notebook);  Review lab report format and rubric; | Prelab for autopsy Lab due 8/30;  check out lab manuals and other docs in Schoology  HW: finish prefix ws for home |
| 8/23 | Set up lab notebook-lab report format; set up EE  Notebook; lab manuals in Schoology;  A/P vocab ws -due 8/29 | Get familiar with the lab manual, guidelines and lab safety.  Reading notes: p 1-13 notes (body systems, homeostasis, traits of living things, levels of organization)-reading quiz on 8/30 |
| 8/26 | Activity: Intro to the torso activity | body sys ws |
| 8/27 | Lecture notes p1-13;  body sys ws  Review “Torso activity” |  |
| 8/28 | Intro to lab report format and prelab  Intro to Autopsy prelab |  |
| 8/29 | Computer Lab- Intro to computer labs/rules  Who does what?  <http://library.thinkquest.org/15569/car1a.html> -Due 9/5 | Finish Who Does What? |
| 8/30 | Autopsy prelab due; (must be done in lab notebooks according to the guidelines)  Ch p1-13 reading quiz; ch 1test study guide due 9/18 | Reading notes p13-20 (body cavities, regions, terms) due 9/18 (Honors only) |
| 9/3 | Chromebooks: online Lab  Medical terminology online Activity: due 9/8  (must complete this activity in lab journals)  [http://msjensen.cehd.umn.edu/APModules/medterms/http://msjensen.cehd.umn.edu/APModules/medterms/](http://msjensen.cehd.umn.edu/APModules/medterms/) | <http://msjensen.cehd.umn.edu/APModules/medterms/>Medical Terminology: [http://www.free-ed.net/free ed/HealthCare/default.asp](http://www.free-ed.net/free-ed/HealthCare/default.asp)  Medical terminology due 9/6 |
| 9/4 | Autopsy lab; autopsy lab report -due 9/12 |  |
| 9/5 | Who does what due; Ch 1 Lecture notes contd. | Body planes ws |
| 9/6 | Complete Lecture notes; review body planes/cavities |  |
| 9/9 | Gummy bears lab | Ch 1 test SG due 9/19 |
| 9/10 | Plan Inquiry experiment: Daphnia/gold fish/brine shrimp | Plan supplies for the expt. |
| 9/11 | Prelab for Inquiry experiment |  |
| 9/12 BTSN | Inquiry experiment | work on Ch 1 test Study guide (check Schoology) due 9/19 |
| 9/13 | Inquiry expt and write lab report |  |
| 9/16 | Inquiry expt and write lab report |  |
| 9/17 | writeInquiry expt lab report  Inquiry lab | Finish inquiry lab report |
| 9/18 | Chapter 1 PGP; work on study guides |  |
| 9/19 | Study guides due; review |  |
| 9/20 | **Lab journals due; Ch 1 test** | Membrane transport/diffusion prelab due 9/24  Read Ch 3 p58-75 (membrane transport); 76-86 (cell organelles) |
| 9/23 | Chapters 2 and 3: Intro to Cell physiology and Biochemistry; Reading notes Ch 2 p37-38 (pH); 39-50 (macromolecules) | Finish cell physiology ws |
| 9/24 | Set up conductivity probes and prepare solutions  **EE notebooks due** | Review Scope Rules-Quiz on 10/3 |
| 9/25 | Complete conductivity lab part 1 |  |
| 9/26 | complete part 2 and extension 3 | Reading notes Ch 4 p110-133 (epithelium, connective tissue, glands) |
| 9/27 | Pool and share class data |  |
| 10/1 | data analysis, EE notebook due | complete lab report; Complete reading notes p134-144 (muscle and nervous tissue; inflammation, repair) |
| 10/2 | Lab write up and discussion |  |
| 10/3 | scope quiz |  |
| 10/4 | Scope lab day 1 | complete lab report |
| 10/9 | scope lab day 2 |  |
| 10/7 | Scope lab analysis |  |
| 10/8 | Tissue questions |  |
| 10/9 | Reading quiz p110-133; tissue lecture |  |
| 10/10 | Finish lecture; Tissue lab pt 1 |  |
| 10/11 | Tissue lab pt 2-slides | Study for the practical |
| 10/14 | Review for the practical- tissue practice packet |  |
| 10/15 | **Tissues PGP; p134-144** reading quiz |  |
| 10/16 | Tissue Review for the practical; slides and black board drawings |  |
| 10/17 | Review tissue slides and pictures |  |
| 10/18 | Tissue practical pt 1-with images |  |
| 10/21 | Tissue practical pt 2-with slides | Reading notes Ch 20, P679-692: structure of the heart |
| 10/22 | Lecture: structure of the heart | Heart ws |
| 10/23 | Heart diagram label quiz;  cont. heart lecture | Heart dissection prelab  Reading notes p692-713  (heart function, electrical activity) |
| 10/24 | Lecture contd- heart structure and function; Heart sounds | Review internal anatomy for dissection |
| 10/25 | P679-692 reading quiz (HONORS); Lecture: heart sounds and EKG; Heart dissection intro  Heart dissection prelab due | Reading blood pressure section p 752-767 |
| 10/28 | Heart dissection day-1 External anatomy | EKG ws; Complete heart diss lab report; Ch 20+21 Study guide due |
| 10/29 | Heart dissection day-2 internal anatomy |  |
| 10/30 | Blood Pressure and EKG Lecture | Blood pressure prelab |
| 10/31 | Blood pressure and EKG lab |  |
| 11/4 | Blood pressure and EKG lab |  |
| 11/5 | Blood pressure and EKG lab | Blood pressure/EKG lab report |
| 11/6 | Blood pressure lab quiz; lab notebooks due |  |
| 11/7 | Ch 20 and 21 Study guide due; **PGP Ch 20+21** (heart structure, function, blood circulation and disorders, EKG, conduction system); Lab notebooks due | Review for the test |
| 11/8 | **20+21 test** | draw and label bone diagrams  pg 181 |
| 11/12 | Table 7.1 in lab journals  Bone anatomy lecture |  |
| 11/13 | NO SCHOOL |  |
| 11/14 | axial skeleton lecture | skeleton ws |
| 11/15 | Finish Lecture: bone structure and function | Table 7.2 |
| 11/18 |  |  |
| 11/19 | PGP; Heart test study guide | finish test study guide |
| 11/20 | Review for the test |  |
| 11/21 | Heart test |  |
| 11/22 | Skeletal system intro diagram | Bone anatomy ws |
| 11/25-11/29 | NO SCHOOL |  |
| 12/2 | Bone essay and draw/label/color a long bone | *Virtual Knee and Hip Surgery:* [*http://edheads.org/*http://edheads.org/](http://edheads.org/) |
| 12/3 | Bones-Lecture | Review and draw Table 7.1 in EE |
| 12/4 | Bones-Lecture | Review and draw table 7.2 in EE |
| 12/5 | Bone identification lab pt 1 |  |
| 12/6 | Bone identification lab part 2 |  |
| 12/9 | **Ch 6, 7, 8 PGP** |  |
| 12/10 | Review for bone practical (review ws) |  |
| 12/11 | Bone practical pt 1 (bone pictures); |  |
| 12/12 | Bone practical pt 2 (real bones) |  |
| 12/13 | Lecture: structure and function of muscle | Muscleman ws |
| 12/16 | Lecture; muscle insertion table | Muscle list-SG for honors due 1/14  muscle anatomy ws1 |
| 12/17 | Muscle origin/insertion lab 1 |  |
| 12/18 | Muscle origin/insertion lab 2 | Muscle review ws |
| 12/19 | Muscle and sarcomere drawings with labels | reading notes p182-197 |
| 12/20 | Muscle ID Quiz 1; **PGP Muscular Sys** |  |
| Winter Break 12/23-1/3 |  |  |
| 1/6 | Muscle Lab |  |
| 1/7 | **Muscle lab; PGP (Nervous System-2 (CH 11, 12, 13** |  |
| 1/8 | Skin |  |
| 1/9 | **Skin PGP;** Review |  |
| 1/10 |  | *Review Muscles from the list* |
| 1/13 | Muscle study guide due: Final exam: Period 2 |  |
| 1/14 | **FINALS: Periods 3 and 7** |  |
| 1/15 | **FINALS: Periods 4 and 6** |  |
| 1/16 | **FINALS: Periods Period 5** |  |
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***2019-20 Semester II***

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| Date | CW | HW |
| 1/22 | Nervous system: Brain story or journey | Brain label ws |
| 1/23 | Seating charts; PGP sign up; Brain and CNS | CNS ws |
| 1/24 | CNS Lecture; Draw and label human eye and describe functions of all labels | Finish eye drawings |
| 1/25 | Eye Lecture | Ch 15 Read 515-520 |
| 1/28 | Take reading notes; eye diagram due; eye label ws | smell prelab |
| 1/29 | Eye label ws due; complete eye lecture | Complete reading notes p521-541 due 1/31 |
| 1/30 | eye disorders and treatments table in notebook | cow eye dissection prelab |
| 1/31 | eye dissection prelab due | vision prelab |
| 2/1 | Eye label quiz; contd. vision lab | reading notes in text p542-558 |
| 2/4 | Finish vision lab; eye functions ws |  |
| 2/5 | Eye Reading quiz (H only); Ear: draw and label-functions |  |
| 2/6 CPT  Min day | Cow eye dissection lab |  |
| 2/7 | complete lab report; ear drawings due | finish ear functions |
| 2/8 | Ear lecture | Ear label ws |
| 2/11 | Ear review ws; Ear anatomy quiz |  |
| 2/12 | Smell, eye, ear and taste PGP | work on eye and ear test SG |
| 2/13 | Senses-Ch 15 test; Ch 15 Test SG due assign ES take home test due 2/21 | ES glands ws |
| 2/14 | ES glands activity: pick a gland and its secretions | ES online research |
| 2/15 | NO SCHOOL |  |
| 2/18 | NO SCHOOL |  |
| 2/19 | ES glands chart; glands label ws |  |
| 2/20 CPT  Min day | Review ES hommework; ES matching ws | Check the turnitin ID |
| 2/21 | ES PGP; ES lecture | read blood structure and function; Reading notes p 662-674 |
| 2/22 | Lecture - blood structure; blood ws |  |
| 2/25 | blood typing lab; ES Take home test due-submit to turnitin.com |  |
| 2/26 | Blood typing lab review; data analysis | lab report |
| 2/27 | blood counting intro | blood ws |
| 2/28 | blood counting lecture notes; |  |
| 3/1 | blood counting lab intro; prelab-Blood counting lab |  |
| 3/4 | Blood reading quiz 1; blood counting lab intro |  |
| 3/5 | Blood counting -real lab | Reading notes 752-775 |
| 3/6 CPT  Min day | pool class data and plot |  |
| 3/7 | Data analysis on class data |  |
| 3/8 | Data analysis on class data | plot data |
| 3/11 | self study and work on test study guide; Blood reading quiz 2 |  |
| 3/12 | Pool class data and plot | Ch 22 read: lymphatic system p783-798 |
| 3/13 | Blood study guide and review |  |
| 3/14 | Lymphatic system intro |  |
| 3/15 | Lymphatic system ws; LS lecture |  |
| 3/18 | Blood and Lymphatic PGP |  |
| 3/19 | Blood test; EE notebook due |  |
| 3/20 CPT  Min day | Draw and label RS; functions | Reading Notes 826-840 |
| 3/21 | Demo: effect of CO2 on a solution; Ch 16 intro lecture |  |
| 3/22 | Lecture notes |  |
| 3/25 | RS -disease chart and Dalton’s law problems | RS test SG |
| 3/26 | RS label quiz |  |
| 3/27 | Lung capacity ws; lecture notes |  |
| 3/28 | Respiration belt lab |  |
| 3/29 | Finish lab; pool data | plot data |
| 4/1 | RS reading quiz; Effects of smoking on lungs activity |  |
| 4/2 | RS Lecture |  |
| 4/3 CPT  Min day | Respiration-PGP |  |
| 4/4 | RS Review; Finish test study guide |  |
| 4/5 | RS test SG due ; **Ch 23 test EE notebooks due** |  |
| 4/8 | draw and label a diagram of DS; list functions | Reading notes 890-911 |
| 4/9 | DS ws |  |
| 4/10 | enzymes chart | lab report |
| 4/11 | DS lecture | Reading notes 874-890 |
| 4/12 | Amylase lab |  |
| 4/13 | DS disorders chart; DS quiz |  |
| BREAK  15-22 |  |  |
| 4/16 | Urinary system draw and label |  |
| 4/17 | PGP ch 24-Digestive Sys |  |
| 4/18 | US disorders chart | Urinalysis lab prelab due 4/23 |
| 4/19 | Urinary system intro lecture |  |
| 4/20 | Urinary system intro and lecture notes |  |
| 4/23 | Urinalysis lab |  |
| 4/24 CPT  Min day | Urinalysis lab |  |
| 4/25 | Urinalysis lab pool data and plot |  |
| 4/26 | Urinary Sys PGP |  |
| 4/27 | Intro to pig dissections: guidelines, expectations |  |
| 4/30 | pig outline drawings |  |
| 5/1 | Pig packets for students; Cont. Virtual Pig Dissection- online Pass all VPD quizzes |  |
| 5/2 | online dissection-VPD (pass all quizzes) | Online lecture notes |
| 5/3 | complete online diss; (take notes/draw/label diags) | DS matching ws |
| 5/4 | VPD Quiz!  Real pig diss intro; make groups; clean up groups; evaluation; rules | Reading notes 962-979; 979-998 due 4/26 |
| 5/7 | catch up day |  |
| 5/8CPT  Min day | make up VPD quiz; Real Dissection intro and rules |  |
| 5/9 | PGP Reproductive System | label US ws |
| 5/10 | Dissection Day 1 |  |
| 5/11 | Day 2 |  |
| 5/14 | Catch up day for dissections |  |
| 5/15 | Day 4 |  |
| 5/16 | Day 5 |  |
| 5/17 | Day 6 |  |
| 5/18 | Day 7; dissection evaluation; Say good bye to pigs! |  |
| 5/21 | Clean up; review for the practical |  |
| 5/22 | self and group evaluation; Final Dissection clean up |  |
| 5/23 | **Review day** | Review for the practical |
| 5/24 | **Pig Practical pt 1** |  |
| 5/25 | **Pig Practical pt 2** |  |
| 5/28 | No school |  |
| 5/29 | Reproductive System PGP |  |
| 5/30 | Work on pig book |  |
| 5/31 | Reflections on dissections |  |
| 6/1 | Pig Book due! |  |
| 6/4 |  |  |
| 6/5 | **FINALS** |  |
| 6/6 | **FINALS (Graduation)** |  |
| 6/7 | **FINALS (Last day of Classes)** |  |
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Yeh! U did it!!

END OF SEMESTER II !!! Have a great Summer!!

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**Important Reminders to be successful in this challenging course:**

**Lab and Everything Else Notebooks/Journals Set up:**

* Name, Period, and Course title on the front cover
* Table of contents: Skip 3-4 pages for this section; draw it as follows:

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Assignment # Assignment title Date Points/Score

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* No Credit for the wrong format!
* No credit for loose papers!
* Journals are collected and graded at my discretion!
* Responsibility and Neatness Counts!

**Peer Group Presentations (PGP):**

* + One presentation on the chosen topic/per semester.
  + Cover every topic listed on the test study guide located in the google folder
  + The purpose of PGP is to review for the chapter test.
  + Presentation must be creative, engaging and on time.
  + You must email me or share your presentation a day before the due date
  + Save your ppt in the google drive drive or email it to yourself/me a day before the day of presentation.
  + No excuses at the last minute!
  + At the end of the ppt, you must have a 10 questions quiz/quizlet/jeopardy/kahoot for the class.
  + Be creative-use video clips and animations!

**Labs:**

* Labs are as important as the tests and quizzes! No fooling around in the lab!
* Most labs are accompanied by prelabs to prepare you better for the real labs.
* You must write up a lab report to get full credit for all labs

**Important Websites for the course:**

* *Difficult Concepts:* [*http://www.pennhealth.com/health\_info/animationplayer/*](http://www.pennhealth.com/health_info/animationplayer/)
* *Online Learning Center has extensive learning and teaching tools:*
* [*http://www.mhhe.com/shieress9*](http://www.mhhe.com/shieress9)
* *Fields of Medicine Online Activity:* [*http://library.thinkquest.org/15569/car1a.html*](http://library.thinkquest.org/15569/car1a.html)
* *Online Medical Terminology Activity:* [*http://www.free-ed.net/free ed/HealthCare/default.asp*](http://www.free-ed.net/free-ed/HealthCare/default.asp)
* *Virtual Knee and Hip Surgery:* [*http://edheads.org/*](http://edheads.org/)
* *Sheep Brain Dissection:* [*http://www.hometrainingtools.com/articles/brain-dissection-project.html*](http://www.hometrainingtools.com/articles/brain-dissection-project.html)
* *Brain anatomy online:* [*http://www.gwc.maricopa.edu/class/bio201/brain/brshpx.htm*](http://www.gwc.maricopa.edu/class/bio201/brain/brshpx.htm)
* *Cow Eye Dissection:* [*http://www.exploratorium.edu/learning\_studio/cow\_eye/*](http://www.exploratorium.edu/learning_studio/cow_eye/)
* *Animation activities:* [*http://www.pennhealth.com/health\_info/animationplayer/endocrine\_glands.html*](http://www.pennhealth.com/health_info/animationplayer/endocrine_glands.html)
* *Online Blood typing:* [*http://nobelprize.org/educational\_games/medicine/landsteiner/landsteiner.html*](http://nobelprize.org/educational_games/medicine/landsteiner/landsteiner.html)
* *Sheep Heart dissection:* [*http://eduspace.free.fr/vs\_pages/heart\_dissection.htm*](http://eduspace.free.fr/vs_pages/heart_dissection.htm)
* *Online Heart anatomy:* [*http://www.gwc.maricopa.edu/class/bio202/cyberheart/anthrt.htm*](http://www.gwc.maricopa.edu/class/bio202/cyberheart/anthrt.htm)
* *Virtual Open Heart Surgery:* [*http://www.abc.net.au/science/lcs/heart.htm*](http://www.abc.net.au/science/lcs/heart.htm)
* *The Lung model:* [*http://www.smm.org/heart/lessons/lesson7.htm*](http://www.smm.org/heart/lessons/lesson7.htm)
* *Pig Dissection Online Review:* [*http://www.biologycorner.com/pig/fetal.html*](http://www.biologycorner.com/pig/fetal.html)
* *Virtual Pig Dissection Study Guide:* [*http://www.whitman.edu/biology/vpd/main.html*](http://www.whitman.edu/biology/vpd/main.html)
* *Animations:* [*http://highered.mcgraw-hill.com/sites/dl/free/0072437316/120060/ravenanimation.html*](http://highered.mcgraw-hill.com/sites/dl/free/0072437316/120060/ravenanimation.html)
* *Circulatory System Physiology:* [*http://www.phschool.com/science/biology\_place/labbench/lab10/intro.html*](http://www.phschool.com/science/biology_place/labbench/lab10/intro.html)
* *Learn Anatomy Physiology:* [*http://www.learnanatomyphysiology.com/*](http://www.learnanatomyphysiology.com/)
* *Master Muscle List:* [*http://www.meddean.luc.edu/lumen/meded/grossanatomy/dissector/mml/index.htm*](http://www.meddean.luc.edu/lumen/meded/grossanatomy/dissector/mml/index.htm)
* *Virtual Anatomy: http://www.niagaracc.suny.edu/academics/life\_science/val/index.html*
* *Case Study Center:* [*http://sciencecases.lib.buffalo.edu/cs/*](http://sciencecases.lib.buffalo.edu/cs/)
* *Medline Plus Videos:* [*http://www.nlm.nih.gov/medlineplus/anatomyvideos.html*](http://www.nlm.nih.gov/medlineplus/anatomyvideos.html)
* *Vision Physiology:* [*http://www.gwc.maricopa.edu/home\_pages/crimando/BIO201/jca1lc10.htm*](http://www.gwc.maricopa.edu/home_pages/crimando/BIO201/jca1lc10.htm)
* *Human Biodyssey:* [*http://www.gwc.maricopa.edu/home\_pages/crimando/jcHumanBiodyssey.htm*](http://www.gwc.maricopa.edu/home_pages/crimando/jcHumanBiodyssey.htm)

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