

## Course Information

Date Submitted: 2/19/2013

Current Prefix and Number: ANA - Anatomy , ANA 110 - ANATOMY AND PHYSIOLOGY FOR NURSING II

Other Course:

Proposed Prefix and Number: ANA 110

What type of change is being proposed?

Major Change

Should this course be a UK Core Course? No

## 1. General Information

a. Submitted by the College of: College of Medicine

b. Department/Division: Anatomy & Neurobiology

c. Is there a change in 'ownership' of the course? No

If YES, what college/department will offer the course instead: Select...

e. Contact Person

Name: Brian R. MacPherson

Email: brmacp@uky.edu

Phone: 323-5539

Responsible Faculty ID (if different from Contact)

Name:

Email:

Phone:

f. Requested Effective Date

Semester Following Approval: No OR Effective Semester: 2013

## 2. Designation and Description of Proposed Course

a. Current Distance Learning (DL) Status: N/A

b. Full Title: ANATOMY AND PHYSIOLOGY FOR NURSING II

Proposed Title: Anatomy and Physiology for Nursing II

c. Current Transcript Title: ANATOMY AND PHYSIOLOGY FOR NURSING II

Proposed Transcript Title: Anatomy and Physiology for Nursing II

d. Current Cross-listing: none

Proposed – ADD Cross-listing :

Proposed – REMOVE Cross-listing:

e. Current Meeting Patterns

LECTURE: 3

Proposed Meeting Patterns

LECTURE: 3

LABORATORY: 1

f. Current Grading System: ABC Letter Grade Scale

Proposed Grading System: PropGradingSys

g. Current number of credit hours: 3

Proposed number of credit hours: 3

h. Currently, is this course repeatable for additional credit? No

Proposed to be repeatable for additional credit? No

If Yes: Maximum number of credit hours:

If Yes: Will this course allow multiple registrations during the same semester? No

2i. Current Course Description for Bulletin: Basic anatomy and physiology integrated to prepare freshman students for nursing.

Proposed Course Description for Bulletin: Basic anatomy and physiology integrated to prepare freshman students for nursing. Lecture 3 hours, laboratory 1 hour (THIS COURSE WILL HAVE A LABORATORY FEE)

2j. Current Prerequisites, if any: Prereq: Successful completion of ANA 109.

Proposed Prerequisites, if any: Prereq: Successful completion of ANA 109.

2k. Current Supplementary Teaching Component:

Proposed Supplementary Teaching Component: No Change

3. Currently, is this course taught off campus? No

Proposed to be taught off campus? No

If YES, enter the off campus address:

4. Are significant changes in content/student learning outcomes of the course being proposed? Yes

If YES, explain and offer brief rationale: A one hour laboratory component will enhance the learning experience in this nursing prerequisite course, aligning it with similar courses offered elsewhere. The laboratory sessions will be a mixture of on-line physiology laboratory sessions available from the textbook publishers site and examination of human cadaver dissections, bones and histological materials in the departmental laboratories. THIS COURSE WILL HAVE A LABORATORY FEE.

5a. Are there other depts. and/or pgms that could be affected by the proposed change? Yes

If YES, identify the depts. and/or pgms: Nursing

5b. Will modifying this course result in a new requirement of ANY program? No

If YES, list the program(s) here:

6. Check box if changed to 400G or 500: No

## Distance Learning Form

Instructor Name:

Instructor Email:

Internet/Web-based: No

Interactive Video: No

Hybrid: No

1. How does this course provide for timely and appropriate interaction between students and faculty and among students? Does the course syllabus conform to University Senate Syllabus Guidelines, specifically the Distance Learning Considerations?

2. How do you ensure that the experience for a DL student is comparable to that of a classroom-based student's experience? Aspects to explore: textbooks, course goals, assessment of student learning outcomes, etc.

3. How is the integrity of student work ensured? Please speak to aspects such as password-protected course portals, proctors for exams at interactive video sites; academic offense policy; etc.

4. Will offering this course via DL result in at least 25% or at least 50% (based on total credit hours required for completion) of a degree program being offered via any form of DL, as defined above?

If yes, which percentage, and which program(s)?

5. How are students taking the course via DL assured of equivalent access to student services, similar to that of a student taking the class in a traditional classroom setting?

6. How do course requirements ensure that students make appropriate use of learning resources?

7. Please explain specifically how access is provided to laboratories, facilities, and equipment appropriate to the course or program.

8. How are students informed of procedures for resolving technical complaints? Does the syllabus list the entities available to offer technical help with the delivery and/or receipt of the course, such as the Information Technology Customer Service Center (<http://www.uky.edu/UKIT/>)?

9. Will the course be delivered via services available through the Distance Learning Program (DLP) and the Academic Technology Group (ATL)? NO

If no, explain how student enrolled in DL courses are able to use the technology employed, as well as how students will be provided with assistance in using said technology.

10. Does the syllabus contain all the required components? NO

11. I, the instructor of record, have read and understood all of the university-level statements regarding DL.

Instructor Name:

SIGNATURE|DONGASH|Don M Gash|Dept approval for ZCOURSE\_CHANGE ANA 110|20120813

SIGNATURE|BLTAUF2|Brandi L Stocker|College approval for ZCOURSE\_CHANGE ANA 110|20120815

SIGNATURE|JDLIND2|Jim D Lindsay|HCCC approval for ZCOURSE\_CHANGE ANA 110|20120815

SIGNATURE|JMETT2|Joanie Ett-Mims|Undergrad Council approval for ZCOURSE\_CHANGE ANA 110|20120919

SIGNATURE|JEL224|Janie S Ellis|Senate Council approval for ZCOURSE\_CHANGE ANA 110|20121221

SIGNATURE|MRWH224|Melissa R Wilkeson|Approval resent to approvers for ZCOURSE\_CHANGE ANA 110|20130204

# + Anatomy and Physiology 110

Spring 2012

# Syllabus

**Dr. Magdalena N. Muchlinski**

Department of Anatomy and Neurobiology

MN210 Chandler Medical Center

Phone: 859-323-1770

e-mail: [magdalena.muchlinski@uky.edu](mailto:magdalena.muchlinski@uky.edu)

Office hours: M/W/F 4pm-5pm

## Memorandum

All students are required to read the entire syllabus and sign a “Syllabus Contract” during the 2<sup>nd</sup> class attesting to have read and understood the syllabus. Students can come to the instructor’s office hours or email with any questions about the syllabus during the first 2 weeks of class.

## Direction to Dr. Muchlinski’s Office (from the college of nursing)

1. Go to the third floor of the nursing building and cross over to the medical center using the catwalk.
2. At the end of the catwalk, turn right to enter the 2<sup>nd</sup> floor of the medical center through two glass doors, continue straight down a long corridor until it dead ends at a group of windows – elevator will be to your left. Go right.
3. Take the first door to the left - has a brown sign on the wall beside it that reads “MN Corridor.”
4. Go down the MN corridor almost to the end. My office is MN 210

## Teaching Assistant

XXXXXXXXXX (2pm)

XXXXXXXXXX (3pm)

## Office hours

By appointment

## Email

XXXXXXXXXX @uky.edu

XXXXXXXXXX @uky.edu

## Lecture

Monday, Wednesday, Friday

2:00pm – 2:50pm (001) or 3:00pm - 3:55pm (002)

**You must go to your assigned section!**

## Lecture Room

Nursing 201

## Laboratories

Virtual (computer based) and/or in person (in the gross anatomy laboratory) on the dates specified in the syllabus, the lab groups beginning at 4 p.m.

## Lab classroom

Dry Lab: MS233; Wet Lab: MS 203

## Physiology laboratories

Physiology Digital Laboratories: PowerPhys™ – Digital physiology laboratory exercises

## Course website

- **Blackboard** for course supplements, attendance, exam grades, and messages.
- **WileyPlus** - Homework assignments, tutorials, laboratories, and all HW grades

## Final Exam

ANA\_110\_001 – xxx

ANA\_110\_002 – xxx

### Course Objectives

This is a **four-credit lecture and lab course** that examines the inter-relationship of structure and function of each body system. This is a **two-semester course**. This semester will cover the endocrine, circulatory, respiratory, digestive, and urinary systems. We will also cover male and female reproductive anatomy and physiology. The objectives of this course is to provide a comprehensive undergraduate anatomy and physiology course, providing students with a solid foundation for successful completion of further courses in nursing. This class will promote critical thinking and lifelong learning and will prepare students for upper division nursing courses.

### Student Learning Outcomes

1. Students will examine the gross anatomical arrangement of the human body in a system-by-system format.
2. Students will relate the structure of the systems to the function (physiology) of the system.
3. Students will examine both the anatomy and physiology of the human body at multiple levels – cell to organ.
4. Student will learn to think critically and provide clinical correlations of human anatomy and physiology as it relates to nursing.
5. Students collect and evaluate anatomical and physiological data to make decisions regarding patient care.
6. Students will learn how to solve problems using required skills and knowledge.

### Required and Optional Course Materials Text/Website (3 items)

#### Required (3 items)

1. **Fall and Spring Lab instruction packet** (Author: Magdalena Muchlinski)

2. **WileyPlus – Interactive Website + ebook**

**Purchase online:** <https://www.wileyplus.com/WileyCDA/?wpsso=>

**Purchase registration code from bookstore (campus or Kennedys)**

ANA\_109\_001 : <http://edugen.wileyplus.com/edugen/class/cls287243/>

ANA\_110\_002 : <http://edugen.wileyplus.com/edugen/class/cls287245/>

3. NXT “clickers

#### Optional items

**Fall and Spring course lecture package** (Author: Magdalena Muchlinski)

Textbook: Anatomy and Physiology: From Science to Life (buy used or direct online or bookstores – any edition)

Authors: Gail Jenkins and Gerard J. Tortora

Publishers: Wiley Blackwell

**NOTE: Two copies on reserve at the medical center library (1<sup>st</sup> floor of the Chandler Medical Center)**

Textbook: The Anatomy Coloring Book (buy used or direct – any edition)

Authors: Wynn Kapit and Lawrence M. Elson

Publishers: Benjamin Cummings

#2 lead pencil

colored pencils/pens (strongly recommended)

binder

***You will be provided with an online PowerPhys™ code to complete the digital computer based physiology experiments and you will be provided with latex gloves and probes when participating in the gross anatomy cadaver based activities. The lab fee applied to this course covers your access to the on-line PowerPhys™ program and the user fee for all users of human cadaveric material at the University of Kentucky. Gloves will be supplied for the wet labs in the gross anatomy component.***

## STUDENT CONDUCT

1. All rules and regulations set forth in the current edition of the Student Rights and Responsibilities will be followed in this course. It is the student's responsibility to obtain a copy of this publication from the web (<http://www.uky.edu/StudentAffairs/Code/>).
2. **NO COMPUTER!** No Exceptions. This includes ipads, iphones, blackberries and other web based or electronic devices. **ONLY CLICKERS ARE ALLOWED IN CLASS!**
3. **EMAIL:** It is the student's responsibility to ensure that their email is activated, effectively operating, and that they read their email on a daily basis. The instructor will often correspond with students via their Official UK Email address. *"I did not receive the email"* will not be accepted as a valid excuse: unless it is the case that it is a mass email and the majority of students did not receive "the" email, for some obvious technical difficulty reason.
4. Turn Cell Phones Off **PRIOR** To Class (This includes and any other electronic devices that ring or beep or make sounds of any type). **These devices are disruptive and students may have exam points deducted from the next exam following the offense.**
5. BRING THE REQUIRED MATERIAL TO CLASS (e.g., CLICKER + NOTEPACKET) **EVERY Class!!!!**
6. Be respectful to both your instructor and your fellow students: **DO NOT** talk during lecture. This is considered disruptive and students may be asked to leave and/or have exam points deducted from the next exam following the offense.
  - a. Adapted from: [www.ferris.edu/HTMLS/colleges/university/fsus/Faculty/.../How-To-Act.do...](http://www.ferris.edu/HTMLS/colleges/university/fsus/Faculty/.../How-To-Act.do...)  
*A college classroom is a new environment for most students. It is traditionally a more formal situation than a student may have experienced in high school. Most of the instructors are women and men who have a masters or doctoral degrees and hold titles like instructor, assistant professor, associate professor, and professor. College classrooms are considered to be a **formal** place of learning where noise, neighborly chit-chat, tardiness, and disruptions are not merely annoying but unacceptable. "Cute" or humorous behavior that may occur in high school classrooms may prove embarrassing and costly in a college classroom.*
7. **Attendance is mandatory.**
  - a. The following are acceptable excused absences: serious illness, illness or death of family member, University-related trips, and major religious holidays. **You may be asked to provide documentation. Documentation for excused absences MUST be presented at the beginning of the class following the absence, or prior to this by bringing to the instructor's office. Documentation for excused absences will not be accepted later than at the next class attended by the student (following the excused absence).**
  - b. In the case of **Academic-related Activities** (including Student Athletes) that require the student to be absent from class or to have to request to take an exam at a time other than the regularly scheduled time: Documentation for said event is required no less than **one week prior** to the event.
  - c. Class attendance is **mandatory**. Excused absences are defined in *Student Rights and Responsibilities*, which can be found online at [www.uky.edu/StudentAffairs/code](http://www.uky.edu/StudentAffairs/code). Student **MUST** contact instructor **via email prior to class** or **within 24 hours** of class if unable to attend.
    - i. Attendance for **EVERY** class will be taken via CLICKERS. The policy is very simple: If a student does not answer the clicker question(s) utilizing the CLICKER, the student is considered absent. **NO EXCEPTIONS.** It is the Student's Responsibility to ensure that their CLICKER is in top working order **prior** to every class. A non-functioning clicker will be accepted as an excuse **ONLY** during the first 2 Classes of the semester. **No Clicker, No Credit for Attendance. No Exceptions.**
    - ii. It is the student's responsibility to check Blackboard **PRIOR** to Friday at 8AM each week. If there is a discrepancy the student has **ONLY** until Friday 5pm of the current week to **email** the instructor. If a student does not email the instructor **prior to 5pm on Friday** they will be marked absent for that day and there will be **NO** opportunity to change this. Again: Prior to

5pm on the Friday of the incorrectly recorded absence.

- d. **Attendance at all exams is mandatory unless the instructor is notified of a University-described Excused Absence within 48 hours before the exam or within 24 hours after the exam. In the event the student cannot present the required documentation within this timeframe, then part of the documentation must make it clear as to why this was not possible. Thus, the student must ALSO have documentation that indicates why the student was unable to notify the instructor within the above timeframe. NO EXCEPTIONS.**
- i. Failure to show-up for and take an exam and to not provide documentation of an excused absence WILL result in a failing grade and NO opportunity to make-up the exam or complete extra-credit.
  - ii. When emailing the instructor about missing Class or an Exam, due to a University-described Excused Absence, the email MUST include: Students Full Name; Your ANA 109 Section Number; Reason for missing class or the exam and when you will be stopping by the instructor's office to provide the required documentation.
  - iii. Make-up exams will be arranged for students with: Clearly Documented Excused Absences That Are Presented Within The Specified Required Timeframe.
8. **Blackboard/WileyPlus Discrepancies**: If there is ANY difference between what the instructor has posted on Blackboard/WileyPlus and what the student believes they should have received credit/grade for, then the student **MUST** contact the instructor, in writing, via email, PRIOR to 5PM on Friday the of the week of the assignment in question.

#### TEACHING/LEARNING MODALITIES

1. Interactive classroom lecture/discussion
2. Echo 360 lecture "capture" (can be viewed online using blackboard)
3. Web based "textbook" readings
4. ARS NXT "clicker" in-class and exam review sessions
5. Clinical Reasoning – patient based approach to anatomy
6. WileyPlus homework assignments
7. Recitations – Cadaver based anatomy experience
8. Exams

#### Course Evaluation

- 1) There will be **5 regular exams** given during the semester.
  - a) Students cannot earn an A in this class by taking exams only
  - b) 3 exams (circulatory system, endocrine + lymphatics, digestive and respiratory system, urinary + male A&P) 100 points each
  - c) **The final exam is comprehensive (100pt = 50 questions are female anatomy/physiology; 50pts = 25 questions compressive)**
  - d) Exams will not be returned but will be available for review within 1 week of the exam. This will allow the instructor to make alterations to scores, process your exams, and prepare them for review.
  - e) The exam keys will be posted by 8pm the day of the exam.
  - f) Exam scores will be posted on blackboard as soon as the grades become available from the grading center (usually within 72 hours from the exam).
  - g) Exams will be multiple choice – ONE QUESTION, 4 ANSWER OPTIONS



- h) There will be 2-6 diagram-based questions on each exam.
- i) The final exam is comprehensive**
- j) On exam day, please bring your STUDENT ID (or drivers license) and a #2 pencil. On exam day upon entering the room, all non-ID non-pencil items (e.g., hats, bags, cell phones) must be left at the front of the room.
- k) There will be four to six versions of the exam. No student in front of you or next to you will have the same exam.
- l) **There will be NO TALKING during the exam and students will not be allowed to ask questions during the exam. Students must do the best they can with the information provided.**
- m) During the post exam reviews, if a student finds a problem, or want to argue a question – they must write a formal written rebuttal. In the rebuttal the student must provide the following information: exam number, version number/letter, the student’s name, and the student must write out the question they are interested in discussing. In the rebuttal the student will include their “incorrect” answer as well as the “correct” answer as indicated on the instructor key. The student must then clearly state the issues they have with the question. Once the student has formally written a rebuttal, the instructor will evaluate each rebuttal on a case-by-case basis and provide the student with a verdict within three days of receiving your rebuttal.
- 2) There will be **20 “TEST YOUR KNOWLEDGE”** assignments given during the semester.
- a) Each assignment will be worth 10 points. They will be assigned randomly throughout the semester. The student will receive notice for each assignment. Students can expect 1-2 assignment due weekly.
- b) “TEST YOUR KNOWLEDGE” assignments will be announced in class and will be posted on blackboard.
- c) “TEST YOUR KNOWLEDGE” assignments will be completed online through WileyPlus.
- 3) Assignments are **time sensitive**; in other words, assignments must be completed by a specific date (e.g., Assignment # 1 must be completed by August 28<sup>th</sup>2012). If a student misses a due date, the student can still submit the assignment with a 50% reduction in the points possible (5 vs. 10 points assuming 100% is achieved on the assignment).
- 4) **Participation/Attendance.** The instructor will be taking attendance in class using the turning point NXT “clicker”. **BRING YOUR CLICKER TO EVERY CLASS!**
- a) ***THE STUDENT MUST REGISTER THEIR CLICKER! CLICKERS must be registered by XXXXXXXXXX 6am!***
- i) How to Register a NXT Clicker:**
- (1) Purchase your NXT clicker at the bookstore.
  - (2) Sign in on your Blackboard account and click on ANA 109.
  - (3) Click on “Course Tools” in the left-hand column of the home page.
  - (4) Scroll down and click on the “Turning Point Registration Tool” icon.
  - (5) Type in your response 6 character device i.d. (Recognize that, if in doubt, a character is a “zero”, not the letter “O”). The i.d. number can be found on the back of the clicker under the bar code.
  - (6) Submit, and you’re done!
- b) **The instructor will start collecting attendance data on XXXXXXXXXXXXX**
- c) **IMPORTANT:** If a student comes to class but forgets their clicker, the student will not receive credit for attending class that day or obtain points for any participation questions asked in class. Bringing a clicker to class is part of a student’s participation in class. Thus, not coming to class prepared will result in lost points.
- d) Participation points will be uploaded to blackboard within 24 hours of each class.
- e) If a student is present in class and participated at least 75% of the time (participation = answering questions), the student will receive a “check mark” in BlackBoard for that day. Each check mark is equal to one point. Total points will be added up to derive “points possible.”
- f) **At the end of the course, if a student has an 85% or higher for their overall participation grade, and if the student has less than four unexcused absences, the class participation grade for that student will**

**automatically be increased to 100%.** This buffer will allow students to obtain full participation credit even if they forgot their clicker once or twice. This semester – a student must attend at least 20 non-test days to obtain 50 participation points.

- g) **It is very important to note that the instructor has the right to withdraw any or all class participation credit for students being disruptive in class.**
- h) Clickers should never be shared in this course. The minimum penalty for betraying this agreement will be a 3% deduction of all involved students' final grades.
- i) Lost clickers are the student's responsibility.

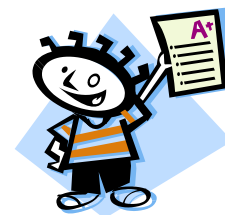
#### 5) **Gross anatomy and physiology laboratory**

- a) As a future nurse, you will be dealing with human anatomy every day. You need to understand the body from the outside in. These labs will allow you to take information you learn in class, read in your supplementary textbook, and processed while completing your "test your knowledge" assignments into a more hands on experience.
- b) There will be 10 labs throughout the semester. Each lab will be 60 to 90 minutes long. There will be two lab quizzes during the semester. These quizzes will be held during regular lab hours.
- c) Each lab module will be clinically relevant to the nursing profession. You will be applying the knowledge you have acquired in lecture and from your textbook in a clinical setting. You will be handling human skeletal remains, human cadaveric material, evaluating histological images/slides, interpreting radiographs, and conducting physiological experiments using *PowerPhys*<sup>TM</sup>.
- d) Donors gifted their bodies to the University of Kentucky. Please remember that the individuals you will be working with were once living human beings with personal experiences and families. Be respectful. This means **NO PHOTOS, NO JOKES, NO INAPPROPRIATE BEHAVIOR!** Failure to behave in a respectful manner will result in a ZERO for both recitations and a formal disciplinary meeting with the Chair of Anatomy and the Undergraduate Dean of Nursing. Inappropriate behavior will result in expulsion from lab and may result in expulsion from the class.
- e) Wear closed toed shoes to lab.
- f) You are not allowed to bring friends or family to the gross anatomy laboratory.

**GRADES ARE NON-NEGOTIABLE. I WILL REPORT THE GRADE YOU EARN. NO CURVE.**

Exams = 550 points  
 Participation/Attendance = 40 points  
 Homework = 200 points  
 Lab activities = 130 points  
 Lab Quizzes = 30 points

A = 90.00-100%  
 B = 80.00-89.99%  
 C = 70.00-79.99%  
 D = 60.00-69.99%  
 E = 59.99% or lower



**NO EXTRA CREDIT IS GIVEN IN THIS CLASS. THERE IS NO ROUNDING-UP IN THE CLASS, UNDER ANY CIRCUMSTANCES, NOT EVEN BY .01 percent. NO EXCEPTIONS.**

## Course Content

Course content may be modified as required at my discretion (e.g., change of pace, addition/omission of chapters, change in number of exams). Additional slides and or material to assist you in studying will be posted on blackboard in a folder called "Assignments" (link located on the left hand of the webpage).

### Unit 1: Circulatory System

Test Date X-X-XXXX

DATE Blood

DATE Blood

DATE Heart

#### DATE Lab 1: Heart Anatomy

DATE Heart

DATE Vessels

DATE Vessels

#### DATE Lab 2: Effect of Exercise on Arterial Pressure and Vascular Resistance

DATE Circulatory System Physiology

### Unit 2: Endocrine and Lymphatic Systems

Test Date X-X-XXXX

DATE Endocrine System

#### DATE Lab 3: PowerPhys - Effect of Exercise on Cardiac Output

DATE Endocrine System

DATE Lymphatic System

DATE Lymphatic System

#### DATE Lab 4: PowerPhys – PowerPhys - Blood Glucose Regulation

"Test your knowledge" assignments 1 – 8 open on x-x-xxxx and will close on x-x-xxxx

### Unit 3: Respiratory and Digestive System

Test Date X-X-XXXX

DATE Nose, nasal cavity, pharynx, and larynx

DATE Lungs

DATE Respiratory physiology

#### DATE Lab 5: PowerPhys - Respiratory Volumes

DATE Respiratory physiology

DATE Respiratory physiology

DATE Oral Cavity

#### DATE Lab 6: PowerPhys - Regulation of Pulmonary Ventilation

DATE Foregut

DATE Midgut

DATE Hindgut

DATE Rectum and Anus

#### DATE Lab 7: Digestive system gross anatomy

#### DATE Lab Quiz 1: Circulatory and Respiratory Systems

"Test your knowledge" assignments 9 - 13 open on x-x-xxxx and will close on x-x-xxxx

### Unit 4: Urinary System + Male Reproductive system

Test Date X-X-XXXX

DATE Kidney anatomy

DATE Kidney anatomy

#### DATE Lab 8: Kidney anatomy

DATE Urinary Physiology

DATE Urinary Physiology

DATE Urinary Physiology

#### DATE Lab 9: Influence of Fluid Intake on Urine Formation

DATE Urinary Physiology

DATE Male Reproductive System

DATE Male Reproductive System

**“Test your knowledge” assignments 14 – 17 open on x-x-xxxx and will close on x-x-xxxx**

**Unit 5 Female Reproduction and Embryology**

**Test Date (FINAL) X-X-XXXX**

DATE Female reproductive anatomy

DATE Female reproductive physiology

DATE Female reproductive physiology

**DATE Lab 10: Male and Female Reproductive Anatomy**

DATE MOVIE: The business of being born

DATE MOVIE: The business of being born

DATE Fertilization and implantation

DATE Fertilization and implantation

DATE Embryology

**DATE Lab Quiz 2: Urinary system, male and female reproductive anatomy**

DATE Embryology

DATE Pregnancy

DATE Parturition

**“Test your knowledge” assignments 18 – 20 open on x-x-xxxx and will close on x-x-xxxx**