

# DPPP 378 – ANATOMY FOR THE HEALTH PROFESSIONS

## COURSE INFORMATION AND LECTURE / LAB SCHEDULE

### Course Coordinator / Instructor

Mark Frasier, M.S.  
970-420-2499  
mfrasier@mail.une.edu

All course work done through: DPPP 378 ANATOMY FOR THE HEALTH PROFESSIONS Blackboard Course site. Access to this Course is automatic following your registration for the course.

To Log on, go to:

<http://blackboard.une.edu/webct/entryPage.dowebct>

**Lecture:** 43 - 50 minute lectures delivered by streaming video from the Blackboard Course

**Laboratory:** Done using Visible Human Dissector and Virtual Edge software.

### Technology Consultant

If you have a problem with Blackboard or your software, please make sure that you email [comdistancetechhelp@une.edu](mailto:comdistancetechhelp@une.edu) or call us at (207) 602-2335 or (207) 602-2689

## INSTRUCTIONAL MATERIALS

### REQUIRED:

The Virtual Edge - Human Prosection Guide  
Frasier/Giddings  
Hard copy laboratory text

Frasier/Giddings

Essential Clinical Anatomy, Moore/Agur, 4th edition

The Visible Human Dissector (VHD) – DVD  
Touch of Life Technologies

\*Virtual Edge CD key code will come with VHD DVD & downloaded from Touch of Life Technologies Web site

\*The Virtual Edge - Human Prosection Guide CD  
Frasier/Giddings  
Software - Electronic laboratory text  
(same as hard copy book. This electronic book interfaces with the VHD)

### OPTIONAL:

**Atlas** (your choice, but highly recommended)

- Atlas of Human Anatomy, Netter
- Color Atlas of Anatomy, Rothen/Yokochi

Human Anatomy Lecture Notes

# COURSE INFORMATION

## **Prerequisites**

Basic Biology

## **Course Description and Goals**

DPPP378 presents the gross anatomy of the human body from a regional perspective, utilizing clinical applications as a basis for anatomical understanding. Other disciplines such as physiology, embryology, histology and anthropology will also be included when they assist in anatomical understanding.

The lecture portion of the course will include:

1. The skeletal, muscular, vascular, and nervous system components of the upper and lower extremities.
2. The vascular, nervous and organ system components of the thorax, abdomen and pelvis.
3. The musculature and vasculature of the head, neck and back.
4. An overview of cranial nerves and the central nervous system.

The laboratory portion of the course includes:

1. Computer facilitated study using The Visible Human Dissector (VHD) & The Virtual Edge anatomy software. Emphasis on identifying relationships and locations of anatomical structures as well as practicing anatomical vocabulary.

The lecture and laboratory are intimately correlated and inseparable.

The course has been designed to fit the needs of students preparing for careers in health related fields such as Fitness and Athletics; Pre-Medicine; Pre-Physical and Occupational Therapy; Pre-Physician Assistant; Nursing; Bio-Education (Teachers!), as well as students simply interested in their own physical construction.

# **DPPP 378 ANATOMY FOR THE HEALTH PROFESSIONS**

The following schedule lists the lectures and laboratories for each of the 4 regions of study. The lectures can be found on the DPPP 378 Blackboard course page. The laboratory portion will be done using the Visible Human Dissector and the Virtual Edge. Readings can be found in Essential Clinical Anatomy by Moore and Agur, 4th Ed.

## **MODULE 1 - LOWER LIMB**

### **UNIT 1**

- Lectures** Introduction  
Pelvic girdle/articulations of pelvis  
Gluteal Region, hip intrinsic muscles
- Laboratory** Open book assessment #1 - (4pts) & Ex. 1\* & 13, The Virtual Edge  
\* Only “typical Vertebrae” and “sacrum” in Ex.1
- Readings** pp 1–30 & 204-210 & 316–329 & 346-348 & 379-384

### **UNIT 2**

- Lectures** Review of the Nervous system  
Lumbosacral plexus/blood supply and return of lower limb  
Knee
- Readings** pp 31-36 & 193 & 217-218 & 331-336 & 341-346 & 346-357 & 379 & 376 & 385-394
- Laboratory** Open book assessment #2 - (4pts) & Ex. 14, The Virtual Edge

### **UNIT 3**

- Lectures** Thigh  
Articulations of the ankle/leg  
Foot
- Readings** pp 336-346 & 349-352 & 356-377 & 395-404
- Laboratory** Open book assessment #3 - (4pts) & Ex. 15 & 16, The Virtual Edge

**LECTURE EXAM MODULE 1**  
**LAB PRACTICAL EXAM MODULE 1**  
**MODULE 2 – THORAX, ABDOMEN AND PELVIS**

**UNIT 4**

**Lectures**      Vertebral column  
                     Muscles of back  
                     Spinal cord

**Readings**      pp 274-294 & 301-315 & 296-301

**Laboratory**    Open book assessment #4 - (4pts) & Ex. 1, The Virtual Edge

**UNIT 5**

**Lectures**      Thoracic wall / lungs & pleura  
                     Heart and pericardium  
                     Coronary circulation/fetal circulation

**Readings**      pp 47-53 & 60-67 & 68-80 & 80-115

**Laboratory**    Open book assessment #5 - (4pts) & Ex. 2, The Virtual Edge

**UNIT 6**

**Lectures**      Abdominal wall/peritoneum  
                     Abdominal viscera  
                     Blood supply/return of abdominal viscera

**Readings**      pp 116-128 & 135-203

**Laboratory**    Open book assessment #6 - (5pts) & Ex. 3, The Virtual Edge

**UNIT 7**

**Lectures**      Male urogenital system  
                     Female urogenital system  
                     Autonomic nervous system

**Laboratory**    No open book assessment & Ex. 4, The Virtual Edge

**Readings**      pp 220-273 & 36-46

# LECTURE EXAM MODULE 2 LAB PRACTICAL MODULE 2

## MODULE 3 – HEAD AND NECK

### UNIT 8

#### **Lectures**

Skull  
Brain  
Arterial supply - head and brain

**Laboratory** Open book assessment #7 (4pts) & Ex. 5, The Virtual Edge

**Readings** pp 495-503 & 555-556 & 573-578 & 512 & 522-526 & 517-519

### UNIT 9

#### **Lectures**

Venous return - head and brain  
Cerebrospinal fluid production /circulation  
Cranial nerve overview/cranial nerve VII & Muscles of expression

**Laboratory** Open book assessment #8- (4 pts), & Ex. 7, The Virtual Edge

**Readings** pp 503-511 & 512-515 & 519-522 & 526-529 & 660-662

### UNIT 10

#### **Lectures**

Cranial nerve V  
Muscles of mastication  
Neck & Cervical viscera

**Laboratory** Open book assessment #9 - (4pts), & Ex. 6, The Virtual Edge

**Readings** pp 659-660 & 549-573 & 592-623

### UNIT 11

#### **Lectures**

Pharynx  
Larynx  
Eye

**Laboratory** No Open book Assessment & Ex. 8, The Virtual Edge

**Readings** pp 631-642 & 623-631 & 529-548

# LECTURE EXAM MODULE 3

## LAB PRACTICAL EXAM MODULE 3

### MODULE 4 - UPPER LIMB

#### UNIT 12

##### **Lectures**

Pectoral Girdle and articulations of shoulder  
Pectoral and Shoulder muscles  
Rotator cuff muscles

**Laboratory** Open book assessment # 10 - (4pts) & Ex. 9, The Virtual Edge

**Readings** pp 475-481 & 405-419 & 423- 427

#### UNIT 13

##### **Lectures**

Axilla and breast  
Brachial plexus  
Blood supply & return of upper limb

**Laboratory** Open book assessment # 11 - (4 pts) & Ex 10, The Virtual Edge

**Readings** pp 427-433 & 53-60 & 433-439 & 417 & 443 & 461 & 468-472

#### UNIT 14

##### **Lectures**

Articulations of elbow / arm  
Articulations of wrist and hand  
Forearm

**Laboratory** – Open book assessment #12 - (4pts), & Ex. 11, The Virtual Edge

**Readings** pp 482-485 & 440-446 & 485-494 & 446-460

#### UNIT 15

##### **Lectures**

Hand

**Laboratory** No open book assessment, & Ex. 12, The Virtual Edge

**Readings** pp 461-474

# LECTURE EXAM MODULE 4 LAB PRACTICAL EXAM MODULE 4

## OPTIONAL COMPREHENSIVE FINAL (If necessary)

### EXAMINATION AND GRADING POLICIES

**Lecture Exams:** There will be four written unit exams and an optional final comprehensive exam all administered via Blackboard. Each unit exam will emphasize the material in that unit. Each of the four exams will consist of 50 points. The optional final comprehensive exam, should you decide to take it, can replace any one of the four written unit exams. Questions on these written exams will be taken from lectures, and the course texts.

**Lab Practicals:** There will be four lab practicals, each emphasizing the material in that unit. Each lab practical will consist of 50 points. Questions will be identification of tagged structures on the VHD, and questions pertaining to these. You cannot drop any lab exam scores.

During almost every Laboratory session, there will be an open book assignment administered via Blackboard. The assignment must be completed by the end of your laboratory session. **Makeup assignments will not be given.** Each assignment will emphasize general class information and the material from The Virtual Edge and the Visible Human Dissector assigned for that lab. The number of points available for each assignment is listed in the schedule above. The total number of points available for the laboratory assignments will be 50.

The final grade will be computed from the grades of the four unit exams (200 points), four lab practicals (200 points), and twelve open book assignments (50 points), for a total of 450 points. You can determine your overall grade at any time during the semester by dividing your actual points by the total points possible to that date. We anticipate that letter grades will be as follows:

			<u>Points</u>
90% -100%	=	A	= 405 and above
80% - 89%	=	B	= 360 - 404
70% - 79%	=	C	= 315 - 359
60% - 69%	=	D	= 270 - 314
Below 60%	=	F	= 269 and below

## Examinations and Proctors

The University of New England has contracted with ProctorU.com to provide students in DPPP378 the most convenient, at home, on line exam proctoring system. This system provides a simple, no cost to the student, secure, on line proctor for all of the DPPP378 exams and allows the student to take all of the exams at home and on their own schedule.

**DUE TO THE NUMBER OF STUDENTS IN DPPP378 – ANATOMY FOR THE HEALTH PROFESSIONS, THE ONLY WAY EXAMS CAN BE DONE IS THROUGH PROCTORU.**

**IF YOU DO NOT HAVE THE NECESSARY SYSTEM REQUIREMENTS OR FOR WHATEVER OTHER REASON CANNOT USE/ACCESS PROCTORU, YOU CANNOT TAKE THIS COURSE -DPPP378.**

**Please see system requirements below to ensure you have the necessary computer setup to use ProctorU.**

Upon enrollment into DPPP378, students will register with ProctorU and establish a login name and password. This will give you access to all of ProctorU's services.

When ready, students will schedule their exams with ProctorU **one week** prior to taking that exam. Upon the exam day and hour, students will log in to proctor U and click on "exams". Following the procedures outlined at ProctorU's web site, the student will log in to Blackboard, open the appropriate exam and the proctor will then allow student access to that exam.

Students will need to plan on, and schedule through ProctorU, a total of 2 consecutive hours for each of the 4 module exams - one hour for each Module lecture exam and one hour for each Module laboratory exam, both done in the same 2 hour time block. You need not schedule all of the exams at once, but each one must be scheduled at least one week in advance of the actual exam date.

At the end of the course, students may elect to take the comprehensive final to improve their total score – see under exams and grades, in which case they will need to schedule a one hour time block with ProctorU for that exam.

**WARNING: SCHEDULING AND THEN REPEATEDLY CANCELLING SCHEDULED EXAMS, ESPECIALLY AT THE LAST MINUTE, WILL RESULT IN THE STUDENT LOSING THEIR PROCTORU SERVICE! WITHOUT PROCTORU, THE STUDENT WILL NOT BE ABLE TO TAKE EXAMS AND THUS NOT BE ABLE TO FINISH THE COURSE!**

### **SYSTEM REQUIREMENTS FOR USE OF PROCTORU**

- \* A computer running Windows XP, Windows Vista, or Mac OS X (or higher) with 256 MB of RAM or higher
- \* A web cam with 640x480 video pixel resolution
- \* Headphones or working speakers connected to the computer

- \* A microphone connected to the computer (We recommend having a web cam that has a built in microphone.)
- \* A web browser with Adobe Flash Player installed. (We recommend Flash Player 10. Get it here.)
- \* A high-speed internet connection
- \* The ability to allow VNC connections to the computer you will be proctored from

## **Course Length and Extensions**

1. Courses in the CDE program are equivalent to one semester courses designed to be completed in 16 weeks
2. Many students are nontraditional students who have elected on on-line course for its flexibility. Therefore students may complete the course in less than 16 weeks or they may take as long as 8 months.
3. Enrollment in the course will begin on the day that the payment is processed
4. Students for whom a grade has not been posted for course by 32 weeks (8 months) will be flagged by the administrative staff. An e-mail will be sent to the instructor asking him/her to contact the student and determine what the best option is for the student based upon the student's needs.

## **Grading Policies and Transcripts**

Enrollment in the course begins the day the payment is processed. Students may withdraw from the course during the first 28 days after date of enrollment. In this case a “Withdraw (W)” will be entered on the official transcript. The withdrawal date will be the date that written notice of the withdrawal such as email, fax or letter is received by the University of New England; *verbal notification is not sufficient*. During this 28 day withdraw period, a percentage of the student’s tuition, but *not* the registration or laboratory fees, will be refunded according to the following schedule: 100% of tuition refunded for withdrawal within 14 calendar days; 66% of tuition refunded for withdrawal from 15 to 21 calendar days; 33% of tuition refunded for withdrawal from 22 to 28 calendar days. No refund will be made after 29 calendar days.

After the 28-day withdrawal period, students may still withdraw from the course at any time they wish before taking the final exam. In this instance, either a “Withdraw Pass (WP)” or a “Withdraw Fail (WF)” will be entered on the student’s transcript depending on the student’s academic standing, based on the quiz grades taken up to the time the student withdraws. Again, the University of New England must be notified in writing of the withdrawal.

Notification that the course materials have been received, and all requests for withdrawal, should be directed to:

All requests for withdrawals should be directed to:

Ms. Angela Morse  
Biomedical Sciences Department

COM Distance Education  
University of New England  
11 Hills Beach Road  
Biddeford ME 04005  
Phone: (207)-602-2494  
Fax: (207)-602-5931  
[amorse@une.edu](mailto:amorse@une.edu)

You can request a transcript using the UNE-University Campus Registrar's website:  
<http://www.une.edu/registrar/transcript.asp>. Click on the "Transcript Request Form" that is found about half way down the page. Fill out the form and fax it to the Registrar using the number listed on the form.

This course, Anatomy for the Health Care Professions, is accredited by both the New England Association of Schools and Colleges and the American Osteopathic Association

### **LEARNING STRATEGIES FOR DPPP-378**

1. Schedule your time and your study environment.
2. Read the laboratory assignment before each lab.
3. Look over your class notes as soon after class as possible.
4. Keep up with the course. Review each week.
5. Avoid cramming as the major means of learning for examinations.
6. Use past and present examinations as learning devices: Why did you miss what you missed?
7. Use all the time allowed for examinations.
8. Make index cards/flash cards and use to review material in "spare" moments.
9. Think about what muscles you're using as you go about your daily activities.