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Drexel University College of Medicine

Subject: Biochemistry

Course Title: Online Medical Biochemistry

Start Date: 6/8/2015

End Date: 7/20/2015

Application Deadline & Fees: \$1,300

Course Description: Course Instructor: Dr. Michael White. Drexel University College of Medicine (DUCOM) offers a makeup course in Medical Biochemistry which is taken on the Web. The course material will be available from June 08 until July 20 with the exam held on Monday, July 20 (dates are flexible upon request of the institution). There are approximately 90 hours of streaming video. The course manual may be downloaded or viewed simultaneously with the streaming video. A DUCOM medical school faculty member is available via bulletin board, telephone, or email to answer questions. The final comprehensive exam will be sent to the student's medical school for their dean to proctor. A pass is 70% and above, with failing at 69% and below.

Pre-requisites: Students must be registered in an accredited U.S.A. Medical School, or equivalent, and provide written approval from their dean of students. Students take July course at their own institution. They must also supply written assurance from also their dean that a proctor will be supplied to administer the final exam.

Other Information: N/A

Course Contact:

Kate Maum

Administrative Coordinator

Biochemistry and Molecular Bio

245 N. 15th Street

Philadelphia, PA 19102

Phone: 215-762-4815
kmaum@drexelmed.edu

Subject: Embryology

Course Title: Summer Remediation in Medical Embryology

Start Date: 6/15/2015

End Date: 7/6/2015

Application Deadline & Fees: June 13th, 2015; Fee: \$1,100

Course Description: Course Description Drexel University College of Medicine (DUCOM) offers a make-up course in Medical Embryology that is taken on the Web. The course material will be available from June 15, 2015 until July 6, 2015 with the final exam held on Monday, July 6th. There will be approximately 15 hours of streaming video lectures with handouts, three online assignments and three mandatory online classroom sessions. (See Technical Requirements listed below). The classroom sessions will provide students with the opportunity to ask questions, provide feedback and to interact with a faculty member and the other course registrants. The course handouts may be downloaded or viewed simultaneously with the streaming video. A Medical School faculty member is available for questions and answers via bulletin board, telephone, or email. After completion of each section of the course, the student takes a MCQ exam. Each Section Exam is taken through Blackboard Vista Learning System and requires a computer and use of the Respondus lockdown browser. Success in each section exam is required in order to progress to the next section. Each student's grade will be determined by a Final Examination taken at their home institution on July 6.

Pre-requisites: The course is open only to medical students who have completed a medical school course that included Embryology as part of the course material. This course may be taken in conjunction with our online Gross Anatomy Remediation course. In such cases, the course time frame will be adjusted to accommodate both courses. Students must be registered in an accredited U.S.A. Medical School, or equivalent, and provide written approval from their Dean of Students. Students take the course at their own institution. They must also supply written assurance from their Dean that a proctor will be supplied to administer final exam.

Other Information: Contact for Course Information: Dr. Dennis M. DePace, (215) 991-8475)

Technical Requirements: 1. High Speed Internet Connection. All of the lectures in the Medical Gross Anatomy Review course are presented as streaming video, which has been optimized for high bandwidth internet connections (e.g., DSL, cable modem, T1). If you do not have a high-speed internet connection at home, you must be able to access such a connection from your medical school or elsewhere.

2. Multimedia Computer: Since all of the lectures consist of both audio and video, the computer (PC or MAC) that you use must be capable of playing audio, and must either have speakers or headphones. The monitor must be capable of displaying a minimum resolution of 1024x768 pixels (best is 1280x1024 pixels). For the online classroom sessions, either a built in or plug in microphone is required.

3. Browser Check: You will use the Drexel University's Blackboard Vista Learning System to access the course. Several browsers are supported. For PCs we recommend that you use Internet Explorer version 7. You should access the Blackboard Vista login page at <https://learning.dcollege.net> and run the "Check Browser" tool (the link is in the upper left-hand corner of the page). In addition to checking your browser, it will also check that you have pop-ups unblocked, your version of java, and that javascript and cookies are enabled. You can also get technical support guides how to correct the problems from this page.

4. Viewing Handouts: Most handouts are in Adobe Reader .PDF format. If you do not have Adobe Reader, then you will need to download and install it. Adobe Reader is available free of charge from the Adobe web site: <http://www.adobe.com/reader/>

5. Adobe Flash Player: In order to be able to view the streaming lecture videos, you will need the free Adobe Flash Player. <http://www.adobe.com/flashplayer/> Please address any technical questions to Technology in Medical Education: time@drexel.edu

Course Contact:

Dennis DePace, Ph.D.
Associate Professor, Course Director
Neurobiology and Anatomy
2900 Queen Lane
Philadelphia, PA 19129
Phone: 215-991-8475
Fax:
ddepace@drexelmed.edu

Subject: Gross Anatomy

Course Title: Summer Remediation in Gross Anatomy

Start Date: 6/15/2015

End Date: 7/17/2015

Application Deadline & Fees: June 13, 2015; Fee: \$2,200

Course Description: Drexel University College of Medicine (DUCOM) offers a make-up course in Medical Gross Anatomy that is taken on the Web. The course material will be available from June 15, 2015 until July 17, 2015 with the final exam held on Friday, July 18, 2014. There will be approximately 30 hours of streaming video lectures with handouts, 20 web-based interactive Clinical Case Reviews, consisting of about 2 cases each. (See Technical Requirements listed below) and anatomy review videos and a large database of practice questions. A Medical School faculty member is available for questions and answers via bulletin board, telephone, or email. Seven mandatory online classroom sessions will be held through the course, one for the course introduction and one for each of the principal units of the course. These will provide the students the opportunity to ask questions, provide feedback and to interact with a faculty member and the other course registrants. The Course is divided into 6 sections, which follow a weekly progression that students may access at their own pace. After each section the student takes an MCQ exam. Each Section Exam is taken through Blackboard Learn and requires a computer and use of the Respondus Lockdown Browser. A minimum passing grade of 70% on each section

exam is required in order to progress to the next section. There will be a Midterm Exam and a Final Exam. These and the points accrued from the Clinical Case Review quizzes are THE ONLY exams that will count toward the final course grade.

Pre-requisites: The course is open only to medical students who have completed a medical school course that included full cadaver dissection but who require a remediation of the conceptual principles of the discipline. Students must be registered in an accredited U.S.A. Medical School, or equivalent, and provide written approval from their Dean of Students. Students take the course at their own institution. They must also supply written assurance from their Dean that a proctor will be supplied to administer the mid course and final exams.

Other Information: Contact for Course Information: Dr. Dennis M. DePace, (215) 991-8475 or Dr. Bruce E. Hirsch, (215) 991-8463

Technical Requirements: 1. High Speed Internet Connection. All of the lectures in the Medical Gross Anatomy Review course are presented as streaming video, which has been optimized for high bandwidth internet connections (e.g., DSL, cable modem, T1). If you do not have a high-speed internet connection at home, you must be able to access such a connection from your medical school or elsewhere.

2. Multimedia Computer: Since all of the lectures consist of both audio and video, the computer (PC or MAC) that you use must be capable of playing audio, and must either have speakers or headphones. The monitor must be capable of displaying a minimum resolution of 1024x768 pixels (best is 1280x1024 pixels). For the online classroom sessions, either a built in or plug in microphone is required.

3. Browser Check: You will use the Drexel University's Blackboard Learn System to access the course. Several browsers are supported. For PCs we recommend that you use Internet Explorer version 7. You should access the Blackboard Learn login page at <https://learning.dcollege.net> and run the "Check Browser" tool (the link is in the upper left-hand corner of the page). In addition to checking your browser, it will also check that you have pop-ups unblocked, your version of java, and that javascript and cookies are enabled. You can also get technical support guides how to correct the problems from this page.

4. Viewing Handouts: Most handouts are in Adobe Reader .PDF format. If you do not have Adobe Reader, then you will need to download and install it. Adobe Reader is available free of charge from the Adobe web site: <http://www.adobe.com/reader/>

5. Adobe Flash Player: In order to be able to view the streaming lecture videos, you will need the free Adobe Flash Player. <http://www.adobe.com/flashplayer/> Please address any technical questions to Technology in Medical Education: time@drexel.edu

Course Contact:

Dennis DePace, Ph.D.

Associate Professor, Course Director

Neurobiology and Anatomy

2900 Queen Lane
Philadelphia, PA 19129
Phone: 215-991-8475
Fax:
ddepace@drexelmed.edu

Subject: Histology

Course Title: Medical Microanatomy

Start Date: 6/15/2015

End Date: 7/17/2015

Application Deadline & Fees: Application Deadline: June 15, 2015 Course fee: \$2200 payable by check or credit card; due by June 12, 2015

Course Description: 5week, web based summer remediation course for students who received a failing grade during their initial course in Medical Microanatomy of the equivalent. Students' progress through the course at their own pace within established time limits.

Pre-requisites: Students must be registered at an accredited U.S. medical school or equivalent, and must have completed a medical school course in Microanatomy. They must complete a registration form that includes written approval from their Dean of Students. The form also requires the Dean to supply contact information for the administrator who will proctor the Mid-Term and Final Exams.

Other Information: Details on technical requirements for the course can be found at http://neurobio.drexelmed.edu/education/SummerCourse/su_mmermicroanatomy.php

Course Contact:

Haviva M. Goldman, Ph.D.
Associate Professor
Neurobiology & Anatomy
2900 Queen Lane
Philadelphia, PA 19118
Phone: 215-991-8467
hgoldman@drexelmed.edu

Subject: Neuroscience

Course Title: Medical Neuroscience

Start Date: 6/15/2015

End Date: 7/17/2015

Application Deadline & Fees: Application Deadline: June 12, 2015 Fees: \$2,200

Course Description: Drexel University College of Medicine (DUCOM) offers a make-up course in Medical Neuroscience, which is administered through the Web. The course material will be available from June 15th until July 17th with the final exam held on Friday, July 17th. There will be approximately 60 hours of streaming video in addition to web-based interactive tutorials, quizzes, brain atlas, brains slides, animations and interactive diagrams (See Technical

Requirements listed below). The course manual can also be downloaded or viewed simultaneously with the streaming video. A Medical School faculty member is available for questions and answers via bulletin board, telephone, or email. The Course is divided into 6 sections, which follow a weekly progression that students may access at their own pace. After completing each section the student takes an MCQ exam. Each Section Exam is taken through Blackboard Learn System and requires a computer. Success in each Section Exam is required in order to progress to the next section. Students will take a final comprehensive exam (July 17th, 2015) upon completion of the course material for a pass (70% and above)/fail (69% and below) grade. The final exam will be delivered through Blackboard Learn with the student's Administrator serving as the proctor.

Pre-requisites: Students must be registered in an accredited USA Medical or Dental School, or equivalent, and provide written approval from their appropriate Administrator (usually the Dean of Students). Students take the course at their own institution. They must also supply written assurance from their Administrator that a proctor will be supplied to administer the final exam at their home institution.

Other Information: Details concerning technical requirements and registration can be found on our website: <http://neurobio.drexelmed.edu/Education/SummerCourse/>

Course Contact:

Jed Shumsky, PhD
Associate Professor
Neurobiology and Anatomy
2900 Queen Lane
Philadelphia, PA 19129
Phone: 215-991-8736
Fax: 215-843-9082
jshumsky@drexelmed.edu

Ponce Health Sciences University

Subject: Biochemistry

Course Title: Medical Biochemistry (BCH 612)

Start Date: 6/1/2015

End Date: 7/3/2015

Application Deadline & Fees: Application Deadline: May 31, 2015 Course Fee - \$1,500.00

Course Description: This summer course consists of lectures, clinical case discussions, and self-study. It covers basic aspects of Biochemistry with emphasis on clinical relevance and introduction to Molecular Biology. There will be four (4) exams. For successful completion of the course, the student has to receive an average grade of 70%. Students who complete the summer biochemistry program will be furnished with a letter from the Registrar's Office indicating satisfactory or unsatisfactory completion.

Pre-requisites: Written permission of student's dean or appropriate administrator. The student must have completed and failed a medical biochemistry course.

Other Information: Course Schedule: Mondays to Fridays from 8:00 a.m. to 12:00 noon.

Course Contact:

Pedro G. Santiago-Cardona, Ph.D.
Assoc. Prof. & Course Coordinator
BIOCHEMISTRY
P. O. Box 7004
Ponce, PR 00732
Phone: 7878402575, Ext. 2212
Fax: 7878405698
psantiago@psm.edu

Subject: Histology

Course Title: Histology and Cell Biology

Start Date: 6/1/2015

End Date: 6/29/2015

Application Deadline & Fees: Application Deadline: May 31, 2015 Tuition Fee: \$1,500.00

Course Description: A comprehensive study of general histology and cell biology using lectures and laboratory exercises. This course is identical to that offered to medical students during the regular academic year. It focuses on the morphological and functional histology of cells and tissues, integrating the functional anatomy and physiology to the organ systems. Course grades are based on four examinations, each consisting of a multiple choice lecture exam and a laboratory practical exam. Upon completion of the course letter grades will be submitted to the appropriate official at the student's school. This course is open to medical, dental, health science students requiring a comprehensive course.

Pre-requisites: Written permission of student's dean or appropriate administrator. The student must have completed and failed a Histology and Cell Biology course.

Other Information: Course Schedule: Mondays to Fridays from 1:00 p.m. to 5:00 p.m.

Course Contact:

Juan B. Fernandez-Perez, PhD
Course Director
Anatomy
P. O. Box 7004
Ponce, PR 00732
Phone: 787-840-2575
jfernandez@psm.edu

Rush Medical College

Subject: Immunology

Course Title: Medical Immunology

Start Date: 6/15/2015

End Date: 7/1/2015

Application Deadline & Fees: Applications must be received by June 12, 2015. Tuition is \$1,700. If taken in tandem with the Rush summer Microbiology course (also \$1,700 tuition) the combined tuition fee will be only \$3,200. Housing in Chicago (if necessary) can be arranged at a modest additional cost (see "other Information" below).

Course Description: This course will cover all the major topics in both basic and Clinical immunology, and is equivalent to the immunology content taken by Rush Medical College students. Topics in the 39 lecture hours include: antigens; T-cell receptor and antibody structure, function, genetics and biosynthesis; structure and function of the cells and organs of the immune system; the major histocompatibility complex; cytokines; antigen processing and presentation; cellular immunology; tolerance & immune regulation; complement; phagocytosis; inflammation; host-pathogen interactions, vaccines, immunodeficiency diseases; hypersensitivity diseases; autoimmunity; transplantation immunology; and tumor immunology. Case/problem presentations will be discussed in 8 additional hours in a workshop format to emphasize basic principles. A comprehensive (>300 page) syllabus will be provided.

Pre-requisites: Any medical, dental, or graduate student who needs to fulfill degree requirements, or who wishes to complete a course in immunology before entering a professional program, may enroll. It is essential that students obtain prior approval from their Dean or appropriate administrator.

Other Information: The course director and his staff will assist in arranging housing (if needed) for each student near the Rush Medical Center campus.

Course Contact:

Thomas F. Lint, PhD

Professor

Immunology/Microbiology

1653 W. Congress Parkway

Chicago, IL 60612

Phone: 312-942-3513

Fax: 312-942-5986

tlint@rush.edu

Subject: Microbiology

Course Title: Medical Microbiology

Start Date: 7/6/2015

End Date: 7/24/2015

Application Deadline & Fees: Applications must be received by July 2, 2015 (June 12, 2015 for the combined Immunology & Microbiology courses). Tuition is \$1,700. If taken in tandem with

the Rush summer Immunology course (also \$1,700 tuition) the combined tuition fee will be only \$3,200. Housing, if needed, can be arranged at a modest additional cost (see "Other Information" below)..

Course Description: This course will cover all the major topics in medical microbiology, and is equivalent to the microbiology lectures in the course taken by Rush Medical College students. Topics include: bacteriology, virology, mycology, and parasitology. The major pathogens in each category are discussed in regard to structure, genetics, physiology, mode of transmission, pathogenesis, laboratory identification and diagnosis, and prevention. Case presentations will be discussed in a workshop format (12 additional hours) to emphasize basic principles. A comprehensive (>300 page) syllabus will be provided. Weekly quizzes will be given, along with a comprehensive final exam.

Pre-requisites: Any medical, dental, or graduate student who needs to fulfill degree requirements, or who wishes to complete a course in medical microbiology before entering a professional program. It is essential that students obtain prior approval from their Dean or appropriate administrator.

Other Information: The course director and his staff will assist in arranging housing (if needed) for each student near the Medical Center campus.

Course Contact:

Thomas F. Lint, PhD
Professor
Immunology/Microbiology
1653 W. Congress Parkway
Chicago, IL 60612
Phone: 312-942-3513
Fax: 312-942-5986
tlint@rush.edu

Tulane University

Subject: Biochemistry

Course Title: Remedial Medical Biochemistry

Start Date: 5/26/2015

End Date: 7/20/2015

Application Deadline & Fees: Tuition for one course module is \$800 (either Cellular or Metabolic Biochemistry). Tuition for both course modules is \$1300. Upon confirmation of tuition and completion of the application process (see below), the student will be provided a link and access to the remedial course website. The student will only have access to learning resources for the appropriate course modules.

Course Description: The course is broken into two course modules, Metabolic Biochemistry and Cellular Biochemistry. Depending on their remedial needs, students can opt to take either or both course modules. The Metabolic Biochemistry module covers six content blocks, including (1) Fundamentals and Kinetics, (2) Carbohydrate Metabolism, (3) Energy Production, (4) Lipid

Metabolism, (5) Nitrogen Metabolism, and (6) Complex Disease States. The Cellular Biochemistry module covers an additional six content blocks, including (1) DNA/RNA/Proteins, (2) Glycobiology, (3) Protein Trafficking and Structural Proteins, (4) Blood, (5) Signal Transduction, and (6) Cell Cycle and Cancer. If a student only needs remediation in the Cellular Biochemistry module, some Metabolic Biochemistry Fundamentals topics are included.

Pre-requisites: Students must be registered in an accredited US Medical School, or equivalent. Students take the course modules on-line at their own institution. A letter must be supplied from the institutional Dean of Students, providing the following information: (1) written approval to take the course module(s), (2) which module(s) is(are) to be taken, (3) assurance that a passing grade in the summer remedial course is acceptable for removing the student's weaknesses or deficit, and (4) that a proctor will be supplied to administer the course module exams (please provide contact information for the proctor), and (5) that students will not be required to take any simultaneous curricular course work that might interfere with the student's success in the summer remedial course.

Other Information: (1) Application Process: The application, tuition and letter of support from the Dean of Students must all be submitted before the application is considered complete. Further instructions are supplied in the application. Please contact the course administrator (Kristy Askam Catlin, 504-988-0395, kcatlin@tulane.edu) if you have any questions. (2) Housing: N/A. (3) High Speed Internet: All lectures are presented as streaming video, which are optimized for high bandwidth Internet connections (e.g., DSL, cable modem, T1). (4) Multimedia Computer: Since all lectures consist of both audio and video, computers must be capable of playing audio, and have speakers or headphones. The monitor must be capable of displaying a resolution of at least 1024x768 pixels. It is recommended that computers (either PC or Mac) be capable of playing Windows Media .asx and .wmv files, and have Windows Media Player 11 (or higher), Microsoft Office Word and PowerPoint, and Adobe Reader software.

Course Contact:

David S Franklin, PhD
Course Director
Biochemistry & Molecular Biology
1430 Tulane Avenue #8543 / SL-43
New Orleans, LA 70112
Phone: 504-988-8868
franklin@tulane.edu

University of Nebraska, Medical Center

Subject: Embryology

Course Title: Human Embryology

Start Date: 6/15/2015

End Date: 7/2/2015

Application Deadline & Fees: Application Deadline: June 12, 2015 Fees: \$1,100

Course Description: This course will provide a review of medical embryology in a lecture format that follows the material used in our medical student and allied health courses.

Pre-requisites: Embryology.

Other Information: A midterm and final examination over the didactic component of this course will be given as multiple choice questions in the format of the USMLE.

Course Contact:

Sarah Keim-Janssen, Ph.D.
Assistant Professor
Genetics, Cell Biology and Anatomy
986395 Nebraska Medical Center
Omaha, NE 68198
Phone: 402-559-7833
Fax: 402-559-3400
skeim@unmc.edu

Subject: Gross Anatomy

Course Title: Human Gross Anatomy

Start Date: 6/8/2015

End Date: 7/17/2015

Application Deadline & Fees: Application deadline: June 5, 2015 Fees: \$1,100

Course Description: The organization of the human body and the way in which anatomical relationships serve as a basis for function are studied in this course. The medical aspects of the structural and functional organization of the human body are also a focus of attention. The course will consist of daily team based learning exercises and supervised laboratory dissection from 1:00 p.m. to 5:00 p.m., Monday through Friday. The major learning experience occurs in the laboratory where teaching consists of small group discussions.

Pre-requisites: Gross Anatomy.

Other Information: Examinations over the didactic components of this course will be given as multiple choice questions in the format of the USMLE. The examinations over the practical components of the course consist of identification of structure, radiographic anatomy, osteology, and functional implications of material covered in the gross anatomy laboratories.

Course Contact:

R. T. Binahmmer, Ph.D.
Professor (Emeritus)
Genetics, Cell Biology and Anatomy
986395 Nebraska Medical Center
Omaha, NE 68198
Phone: 402-559-6238
Fax: 402-559-3400
rtbinham@unmc.edu

Subject: Histology

Course Title: Medical Histology

Start Date: 6/15/2015

End Date: 7/10/2015

Application Deadline & Fees: Application deadline: 06/12/2015 fees: \$1,100

Course Description: The modern concepts of cell and tissue biology including molecular cell biology are incorporated into a framework of a traditional histology course. It is expected that the student will achieve an understanding of the histological structure as well as the ultrastructure upon which much of the current knowledge of normal and pathological function is based. The course will include 40 hours of lecture scheduled in the mornings. Laboratory sessions will be held Monday through Friday, from 1:00 p.m. to 4:00 p.m. Cells, fundamental tissues and organs will be studied with virtual microscopy, but gross slides and microscopes will also be available. Digital images of light microscopic and electron microscopic preparations will also be used. Students also have access to a videodisc library of histological photographs.

Pre-requisites: Histology

Other Information: Mid-term and final Examinations over the didactic components of this course will be given as multiple choice questions in the format of the USMLE. The examinations over the laboratory practical components of the course will consist of identification of structures on virtual microscopy images and digital images of both light and electron microscopic images. Lecture and laboratory quizzes will also be held at various times over materials covered during the previous week. The major part of the course grade will be based on the student's performance on the mid-term and final Examinations. The Course Director reserves the right to upgrade student's scores, if appropriate, but under no circumstances will student's scores be reduced.

Course Contact:

S.S. Joshi, Ph.D.

Professor

Genetics, Cell Biology and Anatomy

986395 Nebraska Medical Center

Omaha, NE 68198

Phone: 402-559-4165

Fax: 402-559-3400

ssjoshi@unmc.edu

Subject: Neuroanatomy

Course Title: Medical Neuroscience / Neuroanatomy

Start Date: 6/1/2015

End Date: 6/26/2015

Application Deadline & Fees: Application deadline: May 22 (a minimum of ten students must be registered by May 22 in order for this course to be taught.) Fees: \$1,100

Course Description: The focus of this course is the structure and function of the nervous system. Clinical applications will be emphasized.

Pre-requisites: Neuroanatomy

Other Information: Written examinations will be in USMLE, multiple-choice format. Practical examinations will utilize gross specimens and images.

Course Contact:

Robert Norgren, Ph.D.
Professor
Genetics, Cell Biology and Anatomy
986395 Nebraska Medical Center
Omaha, NE 68198
Phone: 402-559-8891
Fax: 402-559-3400
rnorgren@unmc.edu

University of Vermont

Subject: Pharmacology

Course Title: Medical Pharmacology

Start Date: 6/1/2015

End Date: 6/29/2015

Application Deadline & Fees: Vermont resident tuition is \$1800 plus a \$60 Comprehensive fee; Out-of-state tuition is \$3,037 plus the \$60 Comprehensive fee.

Course Description: This course covers all of the topics presented in a conventional course in pharmacology for medical students, as well as for students in other health sciences. Topics include general pharmacokinetic and pharmacodynamics principles; rationales for use of drugs to treat various diseases; and adverse effects produced by drugs in clinical settings.

Pre-Requisites: Courses in biochemistry, physiology and microbiology; instructor permission (John.McCormack@uvm.edu)

Other Information:

Step 1: Complete and Print this PDF registration form: Download

(http://www.uvm.edu/~summer/summer_wordpress/wpcontent/uploads/PharmacologyRegForm12.pdf)

Step 2: If you are taking this course to satisfy a requirement elsewhere, please attach to this form a letter by the dean or other appropriate official of your home institution, attesting to your academic status and approving enrollment in this course. Please note that credits earned at UVM are transferable at the discretion of the receiving institution.

Step 3: Mail the signed and dated registration form and approval letter to:

John McCormack
Pharmacology
B301 Health Science Complex

University of Vermont
Burlington, VT 05405-0068

Step 4: The Department of Pharmacology will notify you via email granting you permission to take the course. The Department will include the UVM Registrar's Office on copy, thus informing the Registrar of your eligibility. You may begin the registration process with Continuing Education at <http://learn.uvm.edu/register/>. You will be asked to put in the comment box at the end of the form that s/he is enrolling in PHRM 301. The Registrar's Office will provide an electronic welcome and instruction regarding next steps.

Housing available on campus close to the College of Medicine; campus only 10 minutes from Burlington International Airport.

Course Contact:

John McCormack, Ph.D.

Professor

Pharmacology

Beaumont Avenue

Burlington, VT 05405

Phone: 802-864-4934

John.McCormack@uvm.edu

West Virginia University

Subject: Microbiology & Immunology

Course Title: Immunity/Infection and Disease

Start Date: 6/29/2015

End Date: 8/3/2015

Application Deadline & Fees: Application Deadline June 22, 2015; Application fee \$60;
Course Fee \$3,963.00

Course Description: This course is designed for medical students who need to remediate or refresh current concepts in Medical Microbiology and Immunology. Students attend a virtual classroom of recorded lectures and interact with faculty through an online forum. Progress in this course is evaluated by online weekly examinations and performance on the NBME Microbiology + Immunology Subject Examination. The NBME Subject Examination will be administered on August 3 at WVU or at the student's home institution, if institution has a NBME-certified proctor for administration of web based subject exams.

Pre-Requisites: Students need to contact the course coordinator for application and registration information.

Other Information: Students are responsible for lodging and travel expenses to WVU for the NBME Subject Examination. If student has permission to take the NBME Subject Examination at their home institution, the exam cost is assumed by the student or home institution.

Course Contact:

Brooke Phillips
Program Specialist
Microbiology, Immunology & Cell Biology
West Virginia University, PO Box 9177 Health Sciences Center North
Morgantown, WV 26501
Phone: 304-293-2649
bphillips@hsc.wvu.edu

Subject: Pathology**Course Title:** Pathology 801**Start Date:** 6/8/2015**End Date:** 7/29/2015**Application Deadline & Fees:** Application Deadline: June 5, 2014 Fee: WV students \$4,662, Non-WV students \$7,039

Course Description: This is a 7 ½ -week remediation course in pathology which will cover general and systemic pathology as an online course. Each subject is covered with audiotaped power points. Faculty will be available for questions and answers by mail. Each Friday there will be an online exam. The final examination is the pathology NBME subject examination which will be given in Morgantown on Wednesday, July 29th. Successful completion of the course requires passing weekly examinations with a 75.0% or higher average, and passing the subject exam at the 12th percentile or higher. Course is offered contingent upon sufficient enrollment.

Pre-Requisites: Current registration in medical school, with written approval from your school.

Other Information: Prior to registration, non-WVU students must apply for admission to West Virginia University as non-degree graduate students in the School of Medicine by submitting an application form and nonrefundable fee of \$60. Our department will send applicants the form, which should be filled out using the Major Code = 8399 (School of Medicine, non-degree). Students should apply for WVU admission as soon as possible because this process can take two or more weeks. Once the WVU application has been processed and tuition has been received, the student will be able to register on-line for the course. In order to register, our department requires a letter from a dean or other representative from the applicant's school indicating their eligibility for this course.

Course Contact:

Melina Flanagan, M.D., M.S.P.H
Course Director
Pathology
WVU PO Box 9203
Morgantown, WV 26506
Phone: 304-293-3212
mflanagan@hsc.wvu.edu

Subject: Pharmacology

Course Title: Summer Medical Pharmacology

Start Date: 6/29/2015

End Date: 8/4/2015

Application Deadline & Fees: Applications should be received by 6/29/2015 in order to start the course on time. Tuition and fees are \$3963, which includes a summer scholarship discount from the tuition that is calculated on the basis of credit hours.

Course Description: Summer Medical Pharmacology (PCOL 770) is a 9-credit, online course, designed as a summer make-up course for second year medical students. It covers basic principles of drug action and mechanisms of therapeutic and undesirable effects of drugs currently used in medical practice. Lectures can be viewed in a self-paced format via streaming and downloadable video (Camtasia/mp4) and audio (mp3). Course materials are also available in PowerPoint format. Weekly exams are given online, and the final exam will be taken in a proctored online situation. Most medical students (MD, DO) will register for the section of the course that is graded pass-fail. In this section, the NBME Subject Exam in Pharmacology (i.e., the “shelf board”) will be used as the final exam. It may be taken at the student's home institution if that institution has an NBME-certified proctor for administration of electronic subject exams. If this is not possible, the student must take the NBME exam on-site at WVU or another NBME-certified location. In order to pass the course, a student must earn a passing score on the final exam (12th percentile or higher on the NBME exam) and must have a passing average on the weekly online exams (75.0% or higher). Students in other health professions (e.g., podiatry, dentistry, pharmacy) often require a letter grade rather than a pass-fail course. These students may register for the section of the course that is graded on a standard 10-point scale and will take a proctored WVU-written final in lieu of the NBME exam. Of the students who have enrolled in PCOL 770 between 2007 and 2014, 89% completed the course. Of those, 83% earned a passing grade (S, or C or higher). The average score on the NBME Subject Exam (including all students) was at the 43rd percentile.

Pre-Requisites: Status as a student in a graduate health profession (e.g., medicine, pharmacy, dentistry, pediatric medicine) who has taken pharmacology, or instructor permission.

Other Information: In order for your registration to be processed, you must follow the registration instructions at http://www.hsc.wvu.edu/som/physio/sm_ad/sm.htm.

Course Contact:

Karen Woodfork, Ph.D.

Teaching Associate Professor

Physiology & Pharmacology

PO Box 9229, West Virginia University

Morgantown, WV 26506

Phone: 304-293-1997

kwoodfork@hsc.wvu.edu

Subject: Physiology

Course Title: PSIO 801: Summer Medical Physiology

Start Date: 6/15/2015

End Date: 7/31/2015

Application Deadline & Fees: Application Deadline: June 15, 2015 Application Fee: \$60
Tuition: \$3626

Course Description: This is a 7-credit, online course designed as a summer makeup course for first-year medical students. This course is designed for students who need to remediate medical physiology. Students will attend a virtual classroom by viewing online lectures, available at any time, and may interact with faculty and classmates through pre-arranged online discussion forum and chat room. This course integrates the basic knowledge (molecular, subcellular, cellular, and tissue components) of body organ system function, and whole body functions. This course further applies basic science to the understanding of human health and disease. The overall goal of this course is to expose the students to basic science information and allow them to develop the skills needed to solve therapeutic problems concerning the practice of medicine. Students taking this course can expect to spend, on average, 5 hours per day during the week viewing recorded lectures. Thorough note-taking and review of textbook materials is also highly recommended. Lectures can be viewed in a semi-self-paced format via streaming video; course materials are also available in PowerPoint, mp3, and text formats. Instructors answer students' questions via an online discussion forum. Weekly exams are given online. All students are required to complete the NBME Subject Exam in Physiology as a final exam, during the final week of the course. Each student is responsible for arranging to take the NBME at their "home" institution, including proctor and room scheduling and fees*. NBME results are to be sent to WVU prior to awarding a final grade in the course. Students must earn a passing grade on the shelf board (12th percentile or higher) and must have a passing average (75.0% or higher) on the weekly online exams in order to pass the course. *Students who are unable to schedule the NBME subject exam may have the exam proctored in Morgantown, WV on July 31 at 9 a.m. (location TBA)

Pre-Requisites: Prior to registration, students must contact Dr. Hardy at shardy@hsc.wvu.edu for permission and instructions regarding application.

Other Information: N/A

Course Contact:

Steven L. Hardy, Ph.D.

Associate Professor

Physiology and Pharmacology

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