PENN STATE HARRISBURG PENN STATE COLLEGE OF MEDICINE PULSE

Fall Semester, 2010

Introduction to Healthcare Topics

(BE T 197; Section 001; Schedule # - 531262; 2 credits)

(Wednesday 2 hr lecture [4:00 – 6:00 pm]) Lecture in Penn State College of Medicine Lecture Rooms A, B, and D

Course Director: Dwight Davis, M.D.

Associate Dean for Admissions and Student Affairs

Office of Medical Student Affars, H060

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Harrisburg Contact: Katina M. Moten, M.A.

Sr. Undergraduate Studies Adviser Division of Undergraduate Studies

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Program Objectives:

This college credit course for advanced high school students and college freshmen is intended to provide an introduction to healthcare topics. For the year of 2010, the course will provide an overview of the biological and clinical bases of cancer. Core concepts such as DNA replication, genetic translation and transcription, and oncogenesis will be covered. Clinical aspects

including cancer etiology, pathogenesis, and tumor suppression will be integrated into the curriculum to provide the students with a general understanding of how basic science concepts translate into clinical medicine. The course will include nine lectures taught by Penn State College of Medicine students and three Problem-Based Learning (PBL) cases completed over a span of nine weeks in small groups of six students and one facilitator each. Additionally, the students will participate in a number of interactive sessions throughout the year. Examples include a histology laboratory with the use of light microscopes, a simulation case with an emphasis on obtaining vital signs and a focused patient history, a surgical techniques video There will be two career panels with physicians, session, or a dissection laboratory. researchers, and medical students from the Milton S. Hershey Medical Center and College of Medicine. Students will also have the option to attend a "skills night" with hands-on workshops provided by various medical student groups or shadow healthcare workers from the Hershey Medical Center during the spring semester. By the end of the course, students will be able to combine their knowledge of basic science to the pathophysiology of several medical conditions and discuss their clinical courses. After 10 weeks of the course, students will be divided into groups in order to prepare 10 minute formal presentations on a disease of choice that is related to the course topic. The presentation will be evaluated by peers, medical students, and a professor. Students will be expected to turn in a report on their chosen topic for grading.

Program Requirements:

Schedule: 1 hour of lecture and 1 hour of PBL each week

Transportation: Students must be able to transport to the Penn State Milton S. Hershey College of Medicine each week for 13 weeks.

For Directions: http://www.pennstatehershey.org/web/guest/home/aboutus/mapsdirections

Grading: Grading will be based on class participation (60%, including active participation in Problem-Based Learning small group sessions), and the final presentation and report (40%).

Class Size Limit: 50 Total (10 college freshmen for credit, 10 high school students for credit, and 30 students not-for-credit)

Course Prerequisites: Advanced Biology

Wednesdays (Lecture and PBL sessions) – 4:00 to 6:00 pm

Date	Location	Topic	
9/15/2010	Lecture Room A	Course Introduction Lecture 1: What is cancer/Overview of the semester Start PBL case I	
9/22/2010	Lecture Room A	Lecture 2: Normal Cell Biology Continue PBL case I	
9/29/2010	Lecture Room A	Lecture 3: Pathogenesis of Cancer Complete PBL case I	
10/6/2010	Lecture Room A	Interactive Day: Histology	
10/13/2010	Lecture Room A	Lecture 4: Intro to Immunology Start PBL case II	
10/20/2010	Lecture Room A	Lecture 5: Blood Composition Continue PBL case II	
10/27/2010	Lecture Room A	Lecture 6: Disease Progression Complete PBL case II	
11/3/2010	Lecture Room A	Interactive Day: Invite a Patient/Faculty Career Panel #1	
11/10/2010	Lecture Room A	Lecture 7: Environmental Causes of Cancer Start PBL case III	
11/17/2010	Lecture Room B	Final Presentation Guidelines Lecture 8: Treatment & Prevention Continue PBL case III	
11/24/2010	11/24/2010 NO CLASS – THANKSGIVING BREAK		
12/1/2010	Lecture Room A	Lecture 9: Social Influences of Cancer Complete PBL case III	
12/8/2010	Lecture Room A	Career Panel #2 Final Presentation Preparation: time to work in groups	
12/15/2010	Lecture Room D	Final Student Presentations	
TBD	University Conference Center	Optional: "Skills Night"	
Spring Semester	Milton S. Hershey Medical Center	Optional: physician shadowing experience	

Admission Process:

Students/High Schools must submit the following information to:
Ms. Katina Moten, Division of Undergraduate Studies, Penn State Harrisburg, 777
W. Harrisburg Pike, Middletown, PA 17057

- 1. Attached high school dual enrollment application by May 15
- 2. Current, official high school transcript
- 3. SAT, ACT, or PSAT scores
- 4. Letter or recommendation from high school guidance counselor or principal supporting student's enrollment at Penn State.

Course Registration

Following admission, the student will be contacted by an academic adviser at Penn State Harrisburg, who will assist the student in course scheduling. The student will also be provided with a Dual Enrollment Student Handbook, technology access account, and Penn State ID Card.

Cost of the Program:

Tuition and Fees based upon the current 2009-2010 rates:

\$630.00	Total Cost (After July 1, 2010, please consult the Bursar's Office for the 2010 – 2011 tuition and fees)
\$ 23.00	Student Activities Fee (for less than 5 credits)
\$ 31.00	Facilities Fee (for less than 5 credits)
\$ 78.00	Information Technology Fee (for less than 5 credits)
	school students)
\$498.00	Tuition for a 2 credit course (represents 50% PSU discount for high

Tuition Discounts/Payment

- If student attends a high school, which receives grant funding via the Pennsylvania dual enrollment grant program, the high school may support the remaining balance of tuition charges. Students should discuss this opportunity with their high school guidance counselors.
- 2. If student is a dependent of an employee of the Pennsylvania State University or Hershey Medical Center the student is eligible for a 75% tuition discount through the University's Dependent Grant In Aid Program. The parent/guardian must request, complete, and return the Authorization for Dependent Grant-in-Aid Form to the Human Resources Office at the campus of employment. Students, who receive employee dependent grant in aid funds, will be billed 25% of tuition costs.
- **3.** Students not participating through their high school's Dual Enrollment grant program or the PSU Dependent Grant in Aid Fund are responsible for tuition, fees and books.

Billing

Information regarding the payment of tuition expenses will be provided in the Dual Enrollment Handbook. Bills are submitted and confirmed through eLion, Penn State's Web-based service that provides secure access to academic and financial records.

Confidentiality of Student Records

Students will be required to sign and submit a "Consent to Release Information to a Third Party Form" for grades, and/or other academic information to be forwarded to their high school.



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High School Dual Enrollment Form

A student registering for the first time at Penn State as an undergraduate nondegree student must complete and return this form to Penn State Harrisburg's Registrar's Office in the Swatara Building. Enrollment as nondegree does not imply admission to the University. The student must make formal application to be considered for admission as an undergraduate degree student.

SECTION 1: Biographic Information	ACTIVAT
Last Name:First Name:	Middle Name:
*Social Security Number:	
Gender: Male Female	
Date of Birth:	NT. W.
Parent is employed by the Pennsylvania State University?	No Yes
SECTION 2: Address Information	
Home Address	
Street 1:	
Street 2:	
City/State/Zip:	_
Home Phone Number:	
Cell Phone Number:	
E-mail address:	
Parent[s] e-mail address:	_
1 archi[5] c-man address	_
Emergency Contact Information	
Name: Phone N	Number:
If yes, I have received approval from enrollment grant program? No Currently enrolled as a home-schooled high scludes a participant in Penn	a's dual enrollment grant. No Yes yom my high school counselor as a participant in the dua Yes chool student asylvania's dual enrollment grant program. No Yes_ yom my local school district as a participant in their dual
High School Graduate or GED Equivalency	
riigh behoof Graduate of GED Equivalency	
Are you using this class to fulfill a high school required course if so, please explain	
Have you ever enrolled at Penn State? No Yes - Date of last enrollment:	



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Are you currently in an academic drop status from Penn State o No Yes	r any other college or university previously enrolled?
Are you currently dismissed or suspended from Penn State or as No Yes	ny other college or university for disciplinary reasons?
Have you ever been denied admission to Penn State? No Yes	
SECTION 4: Enrollment Enrollment Request for (Check One): Spring Summ	erFall Year
SECTION 5: Residency Status Are you a U.S. Citizen? Yes No - (If no, which of th I am an immigrant (permanent resident) residing in Penns I am an immigrant (permanent resident) residing in anothe I have a nonimmigrant visa - specific type:	ylvania. er U.S. state or territory.
Are you a legal resident of the Commonwealth of Pennsylvania? Yes, but less than one year Yes, for more than one year No	
Federal law requires that institutions of higher education gather race of their students and employees. Your individual informati requires institutions to report aggregate totals for each category. ethnicity and your race. 1. Is your ethnicity Hispanic/Latino-[Cuban, Mexican, Puculture or origin]?	ion will be kept strictly confidential. The law only Select the appropriate responses regarding your
a Yes, Hispanic/Latino/a 2. What is your race-[select one or more]: White Black or African American Ame Hawaiian/Pacific Islander	b No, not Hispanic/Latino/a
SECTION 7: Signature I have completed all applicable sections of this form and I affirm any misinterpretation of the facts on this form, I understand this enrollment.	
Student Signature:	Date:

*The social security number (SSN) you provide for enrollment purposes, or when requesting specific services, will be used by the University to verify your identity for official record keeping and reporting. If you choose not to supply your SSN, certain services, such as transcripts, academic verification, tax reporting, financial aid and other services may not be available to you, and Penn State cannot guarantee a complete academic record for you. Your SSN will be stored in a central system and only used for official reporting and record keeping. It will not be used as a primary source to identify you within the Penn State system; the PSU ID will be used as the primary identifier.