

September 2009

Upward Bound Newsletter

Saturday Meeting Dates

- September 26
- October 17
- November 14
- December 12
- January 23
- February 27
- March 27
- April 17
- May 8

ACT Test Dates/Deadlines

September 12	August 7
October 24	Sept. 18
December 12	Nov. 6
February 6	Jan. 5
April 10	Mar. 5
June 12	May 7



August-September

Michael Mullins	8/3
Brett Wainz	8/18
Zach Owens	8/20
Joey Lupo	9/5
Melissa Bolles	9/9
Cory Wilson	9/14
Tiffany Williams	9/24
Taylor Ellis	9/29



A Message from Dave's Desk



Where has the summer gone? It is as though it never happened and here it is in just a few days it will be fall. The summer brought many good things to the Upward Bound program that has made another successful beginning for the upcoming year. First, we had 64 students on campus this summer which comprised of 32 females and 32 males. Second, the students were instructed in mathematics (algebra I-Trig/pre-calculus, English I-IV, Spanish I&II, Biology I & II, Chemistry, Physics and Human Anatomy). Third, students could choose from 17 elective classes in the afternoon that were taught by peer mentors in classes such as ACT, computers, microbiology, criminal justice, public speaking, etc. just to name a few. Fourth, at the end of the summer the UB traveled to Washington DC for a five day stay in our nation's capital that was fun, exciting and very knowledgeable.

The fall will begin with our first meeting on September 26, 2009 with an orientation for students and a slight change in our schedule for the academic year. We will have three classes per Saturday that will be made up of two seminar classes and an elective class. Our winter trip will be to Knoxville to see the Broadway production of "Wizard of Oz". The criteria for the play are 1) you **cannot miss** one Saturday meeting between September and November. 2) has turned in all forms and 3) cannot be on program or academic probation. We hope to see each and every one of you this fall. It is imperative that each of you show up on Saturday meetings and school visits this academic year. We currently have 11 spots open for the academic year and 28 students wanting those spots. It is crucial for returning students to be active and participate

in the program activities in order to secure their position in the program. I wish each of you the best of luck in your high school studies and will see each of you on September 26, 2009.



Career Crockpot



Radiation Therapists

Nature of work

Treating cancer in the human body is the principal use of radiation therapy. As part of a medical radiation oncology team, radiation therapist use machines—called linear accelerators to administer radiation treatment to patients. Linear accelerators, used in a procedure called external beam therapy, project high energy x-rays at targeted cancer cells. As the x-rays collide with human tissue, they produce highly energized ions that can shrink and eliminate cancerous tumors. Radiation therapy is sometimes

used as the sole treatment for cancer, but is usually used in conjunction with chemotherapy or surgery.

Work Environment

Radiation therapists work in hospitals or in cancer treatment centers. These places are clean, well lighted and well ventilated. Therapist generally work about 40 hours a week, and unlike those in other health care occupations, they normally work only during the day.

Education

Employers usually require applicants to complete an associate or a bachelor's degree program in radiation

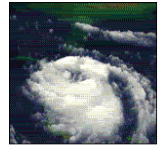
therapy. Individuals also may become qualified by completing an associate or bachelor's degree program in radiography, which is the study of radiological imaging and then completing a 12 month certificate program in radiation therapy.

The average hourly wage for this occupation is \$32.49 with an annual average wage of \$61,780. In addition, employment in this area is expected to grow much faster than average.

Source: *Bureau of Labor*

What are Hurricanes?

Most people associate twisters with tornadoes, but in fact tropical twisters come from hurricanes. Hurricanes are what scientists call "strong Tropical Cyclones". They are formed when large areas of the ocean become heated, and the air pressure over that area drops. This causes thunderstorms and strong surface winds. Cyclones develop over tropical or sub-tropical waters (for example, in the Atlantic off the coast of Africa, or in the Pacific). As they travel long distances gathering energy from the ocean, they are likely to be classified as strong Tropical Cyclones. When the winds of a tropical storm reach 74 mph, then they are classified as a hurricane.



How are Hurricanes Created?

The birth of a hurricane requires at least three conditions. First, the ocean waters must be warm enough at the surface to put enough heat and moisture into the overlying atmosphere to provide the potential fuel for the thermodynamic engine that a hurricane becomes. Second, atmospheric moisture from sea water evaporation must combine with that heat and energy to form the powerful engine needed to propel a hurricane. Third, a wind pattern must be near the ocean surface to spiral air inward. Bands of thunderstorms form, allowing the air to warm further and rise higher into the atmosphere. If the winds at these higher levels are relatively light, this structure can remain intact and grow stronger: the beginnings of a hurricane!

Hurricane winds in the northern hemisphere circulate in a counterclockwise motion around the hurricane's center or "eye," while hurricane winds in the southern hemisphere circulate clockwise. The eye of a hurricane is relatively calm. It is generally 20 to 30 miles wide (the hurricane itself may extend outward 400 miles). The most violent activity takes place in the area immediately around the eye, called the "eyewall". At the top of the eyewall (up to 50,000 feet), most of the air is propelled outward, increasing the air's upward motion. Some of the air, however, moves inward and sinks into the eye, creating a cloud-free area.

FRAME GAMES

LOOKING
YOUR SHOULDER

unseen

BITE S

SCAN

HAPPY

Riddles for your brain



1. Without a bridle or a saddle, across a thing I ride and straddle, and those I ride by the help of me, though almost blind are made to see. What am I?
2. I have a larger money box. It is 12 inches wide and 10 inches tall. How many pennies can I place in my empty money box?
3. What are the next two letters in the following sequence: A E F H I K L M
4. Explain this: A man in Kentucky married 52 women. None of them died and he was never divorced, yet he was very well respected in Kentucky.

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Upward Bound

Upward Bound is a federally funded program through the United States Department of Education and is housed on the campus of Lincoln Memorial University. It aids qualified high school students in generating the skills and motivation necessary to complete high school and to successfully enroll and succeed in post secondary education. The high school students with post secondary potential can be either first generation (neither parent graduated from a four year college) or be financially eligible under federal guidelines.

Area high schools served include: Campbell County High School, Claiborne High School, Cumberland Gap High School, Hancock County High School, Jellico High School, Middlesboro High School, Union County High School, Grace Christian Academy and Washburn High School