that fractions cause students DVMT math teachers agree must leave the university. Two pass it after two semesters they necessary, students have two math classes at FSU. If allow the use of a calculator. PSAT will not allow calculator one. Students will not always have a calculator when they need incorrect. mental Math) classes. students in DVMT (Developed...continued from page 3

page 3

Wandless and Shania Tkaczuk (absent when the picture was taken).

Distinguished...continued from page 2

Distinguished Students for 2014: Minh Nguyen, Ciera Zarger, Brittny Wandel and Shanice Thacuck (Absent when the picture was taken).

Distinguished Students offer friendship, respect, and support for others. They also display a positive attitude, are helpful, cooperative, considerate of others, and strive towards academic excellence. Upward Bound offers congratulations to these students.

of operations. Some students need to review their multiplication tables, too, to save them valuable time on tests. When students are ready, they will be able to take a mastery test in each specific area. Two helpful websites are www.khanacademy.com and www.math-drills.com. There are myriad websites where students can go for practice. Students can also contact the UB office for suggestions.

Galaxy Tour...continued from page 3

field trips over the course of the summer with the theme in mind. The first trip was to the National Radio Astronomy Observatory in Greenbank, West Virginia. Students and staff participated in a scavenger hunt in the mountain’s crater, attended a demonstration in the auditorium, and toured several radio telescopes on the grounds, including the Byrd Telescope, the world’s largest of its kind. The second trip was to Washington, D.C. and the Smithsonian’s Air and Space Museum. Students attended the 3D IMAX show Hubble. They also watched the planetarium’s program Journey to the Stars. In between performances they visited many of the exhibits in the museum. The third trip was to NASA Goddard Space Flight Center in Green Bel, Maryland. Besides the many exhibits at the center, the students enjoyed Science on a Sphere, where images such as the earth’s fault lines were projected onto a six-foot diameter globe. Of course, there were many other activities during the summer not pertaining to the theme, but the summer theme was quite evident from the decor in the residence halls and in the classrooms. Some of the students even had planetary nicknames. At the end of the summer’s Awards Ceremony, parents had the opportunity to see displays of the many activities their students participated in over the summer.

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who needs a Calculator!

According to an October 2011 report, 89% of high school math teachers think their students are ready for college-level mathematics. But only 26% of post-secondary teachers think the students are ready once they get there. If you haven’t developed a “math sense,” even a calculator won’t be very helpful. Students need to know the basics.

Unfortunately, more Upward Bound students than we’d like have to take developmental math classes when they do get to college. This costs them time and money and earns them 0 credits towards graduation. There is also evidence that students having to take remedial math in college are at greater risk for dropping out. Even students not going to college need many math skills and are underprepared for the work force.

Why paper and pencil?

Many college professors do not allow calculators in the classroom or on exams. 

• A calculator will not be helpful with decisions on which function is required to solve a problem…number sense will. 

• The GRE (Graduate Record Exam) does not allow the use of a calculator.

Upward Bound took a fall field trip to Cove Run Farms Corn Maze. Students attended classes on a UB Saturday and after lunch hopped on the bus and headed to Garrett County. The day began rainy and foggy in the morning but by the afternoon had turned into a sunny fall day. Students went through the maze by following clues. This year’s maze theme was on cancer awareness. They went on a hay ride, rode the Cow Train, visited the barn, and a few even had a lesson in milking cows. The day ended with a hot dog and marshmallow roast (for s’mores) on the campfire.

Shareece hanging around on ropes course; taking a crater measurement.

Continued on page 4

Amazing Adventure!
Spotlight on Justin Barclay

Justin Barclay graduated from Upward Bound almost a decade ago. He attended Westminster College and went on to Washington University where he was a recipient of a full scholarship and earned a Bachelor of Music in Vocal Performance. Justin is currently working on a Master of Public Administration (MPA) part-time at the University of Baltimore, concentrating in public and nonprofit management. He will graduate in 2015. He currently works full-time for the Baltimore Symphony Orchestra as Assistant Campaign Manager. He hires, trains, and supervises 15-20 people to help with fund-raising and subscription sales for the BSO. Last summer he managed a booth at Baltimore’s Artscape Festival, the largest free arts festival in the US, and raised a considerable sum towards the BSO’s annual campaign. He commented that one of the perks of his job is that he gets to attend performances for free.

As part of the job he is busy with data analysis and provides statistical reports on the campaigns. He commented that he was happy that his basic math skills were serving him well. He hadn’t expected math to play as large a part in his job as it does.

Justin has also worked in Development and Marketing at the University of Baltimore, a nonprofit organization focusing primarily in musical production, as well as Company Manager for Liturgical Music Associates, and Associate Director of Music for the Church of Saint Patrick in Camberton.

He enjoys performing vocally for his own enjoyment and is very active doing so. He has appeared professionally in many different performances including appearing as Don Alfonso in Mozart’s Le Nozze de Figaro, Papageno in Mozart’s Die Zauberflöte, Count in Mozarts Le Nozze di Figaro, Cogsworth in Beauty and the Beast, and Charlie Brown in You’re A Good Man Charlie Brown, and Captain Hook in Charley’s Peter Pan. He has given numerous solo recitals throughout the Mid-Atlantic region. He has been a regular vocalist at the Cathedral of Mary Our Queen in Baltimore, and as a professional singer, he has performed with several major ensembles and symphonies. He also likes to travel. This year he plans to go to Disney World and to England, Ireland, and Scotland.

He spends time with friends on the weekends, enjoys going out to eat, and likes to dine outside when the weather permits. He is also an amateur chef and particularly enjoys baking. If he’s free, he likes to hang out at home with a good book or movie. He also likes to attend the theater to see a play, musical, symphony or opera.

Justin commented that Upward Bound helped him succeed in his high school studies and prepared him for college. He found the summer trips a way for him to have great experiences with peers whom he would normally not have had the chance to interact with. He found the summer trips a way for him to have cultural experiences that he might not otherwise have had the chance to experience. One of his favorite memories of Upward Bound was taking a guided bus tour of New York City and visiting Ellis Island and the Statue of Liberty.

Justin advises current UB students to concentrate and put forth determination in high school studies so students can get into the college of their choice.