Biochemist: Biochemists specialize in the chemical composition and behavior of living things. Their work is vital for understanding of reproduction, growth, and heredity. Biochemists may investigate such things as causes and cures of diseases, or transferring characteristics of one kind of plant to another. Some study the effects of food, hormones, or other substances on various organisms.

Ecologist: Ecologists study the relationship between organisms and their environment. They particularly look at the effects of such things as soil conservation, pollutants, rainfall, temperature, or altitude on all the organisms in an environment.

Geneticist: Geneticists study the process of inheritance. They perform experiments to determine what causes different traits and inherited disorders, and investigate how these traits are passed on from one generation to the next. They may also devise methods for altering or producing new traits.

Microbiologist: Microbiologists investigate microscopic organisms such as bacteria, viruses, algae, yeasts, and molds. These scientists try to discover how these organisms affect animals, plants, and the environment. Some microbiologists specialize in medicine or agriculture, while others focus on particular organisms.

Nutritionist: Nutritionists counsel individuals or groups on sound nutritional practices to maintain and improve health. They may develop special diets, plan and prepare meals, and budget and purchase food. They may also be responsible for the nutritional aspects of preventive health and medical care services.

In this issue

<table>
<thead>
<tr>
<th>1</th>
<th>Science Careers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Programs</td>
</tr>
<tr>
<td>1</td>
<td>Highlights on Students</td>
</tr>
<tr>
<td>2</td>
<td>SAT/ACT Tips</td>
</tr>
<tr>
<td>2</td>
<td>5 Tips for Parents</td>
</tr>
<tr>
<td>2</td>
<td>Calendars</td>
</tr>
<tr>
<td>2</td>
<td>UBMS Staff</td>
</tr>
<tr>
<td>2</td>
<td>Statistics</td>
</tr>
</tbody>
</table>

Programs

The Upward Bound Math & Science Center consists of two (2) programs:

Local Program (LP) — serving 63 students from Alvarado, Ennis, Venus, Grand Prairie, Mansfield Timberview High Schools.

State Program (SP) — serving 75 students from Central, South and West Texas High Schools and others statewide.

This fall, we will be accepting new participants for both programs through Spring.

Contact us at: ubms@uta.edu

Highlights on Students!

Aaron Juarez:
He received congratulations from the El Paso Independent School District. He placed among the top five students in the class and earned academic recognition. The recognition signifies that his performance ranks him near the top 1% of all high school students in the entire district.

UT Arlington College Acceptances (as of 11/15/2013):
LP – Selena Cantu, Caitlyn Gibbons, Kelsey Gibbons, Jazmin Escamilla, Lyssia Martinez, Jennifer Roca, Kassandra Sanchez (7)
SP – Desiree Garcia, Nicholas Hajek, Daisy Martinez (3)
Top 10 SAT and ACT Test-Taking Tips

1. Be Equipped
On the night before the test you should gather everything you'll need: the admission ticket, a valid form of photo identification, several #2 pencils, a calculator with fresh batteries (for the SAT only), a watch, and a high-energy snack.

2. Don’t Cram
You've worked hard. The best thing to do the evening before the test is to get a good night’s sleep. You've covered the content and you've perfected the skills. Now it’s time to get in test mode — calm, rested, confident, and ready.

3. Dress in Layers
The climate in test centers can vary from sauna-like to frigid. Be prepared for both extremes and everything in-between. You need to be comfortable to do your best.

4. Arrive Early
You may want to scope out your test location before test day to ensure that you know where you’re going. Getting to the test should be the least of your concerns.

5. Don’t Spend Too Much Time on One Question
Each question is worth the same number of points. If a question is confusing or too time-consuming, don't lose your cool. Instead, move on to greener pastures. You can come back to hard questions if you have time at the end of a section.

6. Don’t Look for Un-scored Questions/Sections
The experimental section on the SAT is well-camouflaged. Sometimes the ACT contains experimental questions that are scattered throughout the sections. Do your best on every question — that way, you’re covered.

7. Keep Track of Where You Are in a Section
On the SAT, obvious answer choices early in a set may be correct. Obvious choices near the end of a set are often booby traps.

8. Guess Aggressively
If you don’t know an answer, don’t leave the question blank or guess randomly. Eliminate the choices you know are wrong, then make an educated guess from the remaining options. Remember, if you can eliminate even one answer choice then it pays to guess on the SAT. On the ACT, students aren't penalized for guessing. Only the correct answers count toward their score, so it is better to guess than leave a blank.

9. Be Careful Filling in the Answer Grid
Make sure you’re filling in answers next to the right numbers.

10. Relax
Your attitude and outlook are crucial to your test-day performance. Be confident.

Source: Family Education.com

5 Tips for Parents & College

1. Get to know the guidance counselor
For most students, the high school guidance counselor is the “go to” professional when it comes to college bound advice and support. Encourage your teen to meet with the guidance counselor early and often to clarify the academic requirements for his or her higher education goals. Note: It won’t hurt to remind your teen that the guidance counselor usually writes one of the college recommendation letters.

2. Emphasize grades
Whether you’re the parent of a freshman or a senior, the bottom line to college admission success is great grades. Yes, sports and other extracurricular activities, volunteer work, and standardized tests are important. Don’t lose sight of the fact that, typically, the high school transcript is the most important piece of the college application.

3. Discuss social behavior
Many teens are desensitized when it comes to sharing information online. And even when they don’t share, there are plenty of friends and foes with cell phone cameras ready to document bad behavior. Admissions professionals have been known to uncover unflattering Facebook, Twitter, and Instagram trails. If there’s one slot left and two equally talented students vying for the position, it’s a good bet that the one without the “Girls or Boys Gone Wild” photo shoot will get the acceptance letter.

4. Beware of standardized test anxiety
I spoke with hundreds of families and discovered that parents are often more anxious about standardized testing than their teens. The good news is that parents don’t have to take the tests and kids are used to the testing process. Relax and don’t transfer your parental anxiety onto your teen. Examine your student’s testing strengths and weaknesses and, if test prep is necessary, identify the option that suits their learning style and addresses their weaknesses.

5. Never focus on one school.
There are plenty of great colleges and universities. Focusing on one school as the best place can be a recipe for disaster when it comes to self-esteem and disappointment. Encourage your teen to consider more than one school and identify the positive qualities of all schools in the application portfolio.

Fall Calendar

UPWARD BOUND MATH SCIENCE - STATE

OTA TUTORING (Tuesday—Thursday)
Nov 5th – 7th  Jan 14–16th

UBMS—State Online Tutoring
Tutoring in most subjects: Online 6-7:00 pm

ICCP DUE DATES:
November 22nd    December 18th
January 31st

Video Conferencing Sessions (VC)
Live Sessions: Nov 16th & 20th, Jan 30th

1-on-1 phone sessions:
Monday–Wednesday  Time: 5:00–7:00 pm  (CST)  January 20th–22nd

Testing Dates
SAT: Dec 7, Jan 25, Mar 8, May 3, June 7
ACT: Dec 14, Feb 8, Apr 12, June 14

UPWARD BOUND MATH SCIENCE - LOCAL

TUTORIAL TIMES: Nov 19-21; Dec 10-12
Ennis HS: Tuesday 4:00–6:00 PM
Alvarado HS: Thursday 3:30–5:30 PM
Venus HS: Wednesday 3:40–6:00 PM
Timberview HS: Thursday 3:00–5:00 PM

Saturday Pick-Up Schedule:
Ennis HS: 8:15–8:30 AM
Alvarado HS: 8:45–9:00 AM
Venus HS: 8:45–9:00 AM
Timberview HS: 9:15–9:30 AM

E-3 : December 7

PROGRAM STATISTICS:

Of the 70% of UBMS Seniors who have applied to a college/university, 54% have been accepted to a college/university.

UBMS OFFICE STAFF

Lisa Thompson            Sr. Director, Trio Pre-College
Richard Raleigh         UBMS Director
Chinh Cao               Local Program Coordinator
Fidel Zapata            Bridge Coordinator/Cnsr
Gloria Solorzano        Support Specialist II
Enrique Delgado         Technology Specialist
Ryan Hilton             Tech Asst/Tutor
Stephen Sandoval        Tutor/Work Study