Greeting Parents!

Happy Holidays! This is our first newsletter of the school year. We will be sending the E-Newsletter regularly for you to use each time. It is filled with information to keep you informed as a parent. We hope this newsletter helps you to prepare your student for future college endeavors and ensures your awareness of the many things we are doing at the Upward Bound Math & Science Center.

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

Local Program (consisting of students from Ennis, Grand Prairie, Granbury, and Venus high schools).

State Program (consisting of students from schools located statewide).

We are currently accepting new participants for both programs until early Spring.

Let us know how to improve E-News by emailing us at ubms@uta.edu. We want to be a great resource for you!

PROGRAM DATES & ACTIVITIES

Local Program Dates

<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>December</td>
<td></td>
</tr>
<tr>
<td>3rd</td>
<td>E3 Saturday Activity</td>
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<tr>
<td>6th - 8th</td>
<td>Weekly Tutorials</td>
</tr>
<tr>
<td>January</td>
<td></td>
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<tr>
<td>7th</td>
<td>Parent meeting at UT Arlington</td>
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<tr>
<td>10th - 12th</td>
<td>Weekly Tutorials</td>
</tr>
<tr>
<td>20th</td>
<td>College Tour Day (Central Texas)</td>
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<tr>
<td>24th - 26th</td>
<td>Weekly Tutorials</td>
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</tbody>
</table>

State Program Dates:

<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
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<tbody>
<tr>
<td>December</td>
<td></td>
</tr>
<tr>
<td>6th - 8th</td>
<td>OTA, Attend tutoring at School</td>
</tr>
<tr>
<td>16th</td>
<td>ICCP Part A Due</td>
</tr>
<tr>
<td>January</td>
<td></td>
</tr>
<tr>
<td>6th</td>
<td>Dec ICCP/Optional Activities Part B Due</td>
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<tr>
<td>10th - 12th</td>
<td>OTA, Attend tutoring at school</td>
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<tr>
<td>18th</td>
<td>BNSF/ACT Poster Projects Due</td>
</tr>
<tr>
<td>23rd - 26th</td>
<td>1-on-1 Session (on phone)</td>
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<tr>
<td>26th</td>
<td>Video Conferencing Session</td>
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<tr>
<td>27th</td>
<td>Financial Aid Forum at 6:30 pm</td>
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</tbody>
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Entrance Exams Upcoming Testing:

- SAT Testing – January 28th
  (Late Register by December 30th)
- ACT Testing – February 12th
  (Late Register by January 7th)

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- SAT Testing – January 28th
  (Late Register by December 30th)
- ACT Testing – February 12th
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Winter Edition Issue 2011
Career Discovery

Engineering and Physics Careers

Above: Scientists use astronomy and astrophysics to develop space technology

Above: Video game developers use physics and engineering to develop new video games

Have you ever thought, “There should be a machine for this?” Careers in Physics and Engineering use instruments and machines to solve the problems of everyday life. Currently, biomedical engineers are using chemical particles to find an alternative to chemotherapy for cancer patients. The applications of Physics and Engineering range from the treatment of cancer and other diseases to commanding a military aircraft or submarine. Furthermore, job opportunities are available after the completion of an undergraduate degree in physics or engineering.

Graduate degrees may be required for some positions, however, many universities and companies offer research opportunities and internships to help students gain field experience for jobs and graduate schools. Some specific jobs in Physics and Engineering are: 
- agricultural engineer
- astronomer
- biomedical engineer
- civil engineer
- physicist
- researcher
- teacher/professor
- software engineer

For more on these careers, go to: [http://www.careercornerstone.org/](http://www.careercornerstone.org/)

Parent’s Action Tip

“DEVELOP A PLAN to pay for your education”

1. **Determine College Costs:**
   - College costs are an important factor in the planning process. It’s good to have a method to estimate costs:
     - Determine DIRECT COSTS: Tuition and fees, room and board – you can get this information from the college website or directly from admission office.
     - Determine INDIRECT COSTS: Books and supplies, transportation costs and other expenses.
     - Add up the totals, but don’t panic.

2. **Know the types of Financial Assistance:**
   - Scholarships: Do not have to be repaid and based on merit or merit plus financial need.
   - Grants: Do not have to be repaid and based on need.
   - Loans: Available through government or private sources. Must be repaid after finishing school.
   - Work Study: Earn money through jobs while in school.

3. **Investigate all sources of Aid:**
   - Ask for others help in paying costs or finding financial aid sources.
   - Analyze all of your resources for aid to estimate funds available.

WORDS OF WISDOM

“The Future of Knowledge is set by the limitations of your imagination.” ~ Unknown

GETTING TO KNOW

Leila Subia is a junior at Bel-Air High School in El Paso, Texas. She is the president of the marching band as well as the marching band historian. Leila enjoys sports and volunteering in her free time and plans on pursuing a career in the Biomedical Engineering field. She is School Captain for the El Paso region. She has attended the UBMS Summer Residential Institute and academic year the last two years.

Austin Mullins is a sophomore at Granbury High School, Granbury, Texas. He started an anti-bullying cause called B.E.N. (Bullying Ends Now) to help victims of bullying in schools. President Obama wrote a letter to Austin thanking him for his efforts to help victims of bullying. He started participating in the UBMS Summer Residential Institute last summer.

Utah Bound Math & Science Center Staff:

- Lisa Thompson, Director
- Richard Raleigh, UBMS Coordinator
- Fidel Zapata, Counselor/Bridge Coordinator
- Chinh Cao, Local Program Coordinator
- Tamorah Hawthorne, Educational Advisor
- Enrique Delgado, Technology Specialist
- Sue Avis, Administrative Assistant
- Gloria Solorzano, Support Specialist II
- Mary Blake, Tutor/Technology Assistant

UT ARLINGTON UBMS
P.O. Box 19356 Arlington, TX 76019
Tel: 817.272.2636 Fax: 817.272.2616
Email: ubms@uta.edu

UBMS WEBSITE - [http://www.uta.edu/ubmathsci](http://www.uta.edu/ubmathsci)

UBMS BLOG - [http://utaubahm2.wordpress.com](http://utaubahm2.wordpress.com)