

Academy for Math, Engineering & Science End of Year Summary

As of June 17, 2009

Graduating Class 2009 – AMES 4th Graduating Class

Graduation was held on June 5, 2009

(Libby Gardner Hall – University of Utah – 2:00 p.m.)

Facts

72 Graduates

30 Females

42 Males

40% of graduates identify themselves as ethnic minority

39% of graduate's parents have not received a degree (AA, BS, BA)

- ACT Test: AMES graduates averaged 24 composite (State average composite is 22)
- SAT Test: AMES graduates who have taken the SAT test have consistently scored in the 1800 range.
- 2 Seniors received the Gates Millennial Scholarship (of 1100 awards across the US from 22,500 applicants)
- 37 Seniors submitted application for the State Scholars Initiative (51% of class)
- 65 Seniors took at least one U of U Class while at AMES
- 736 U of U credit hours earned by AMES Seniors valued at \$389,344
- 33 AP exams were passed by the AMES Seniors (does not include tests taken spring of 2009)

63 out of 72 Seniors will be attending the following Colleges/Universities:

28	University of Utah
1	Brigham Young University
21	Salt Lake Community College
1	Snow College
2	Weber State University
3	Westminster
6	Utah State University

Scholarships Received by AMES Seniors

43 of 72 seniors have been awarded scholarships in the amount of \$1,322,800.

- Three seniors were semi-finalists for the Gates Millennial Scholarship; two students were awarded the scholarship.
- Third Annual 10th Grade student was awarded the Energy Solutions Scholarships. Our first recipient will be attending the U of U College of Engineering including a departmental scholarship from the U of U.
- Seniors have been awarded Presidential or Top Scholarships at the University of Utah, Weber State, Westminster College and Utah State University

- Three students were awarded substantial scholarships for participation in the Regional Science Fair
- Two AMES seniors received scholarships designated just for AMES students, one from the Honors College and other, University of Utah Division of Continuing Education.
- One senior received the Larry & Gail Miller Scholarship (4 years full-tuition, room and board), offered by the University of Utah

Title One Status

In November, 2008, AMES was recognized by the USOE as a high performing Title One School (AMES students surpassed their peers for two consecutive years on Math and Language Arts CRT's).

Robotics

At the ITT Robotics Competition six teams of 4 students each represented AMES. In Static Presentation AMES placed 1st, 2nd & 3rd.

Science Fair

- 17 of 18 AMES Projects recognized with one or more awards at the Salt Lake Valley Regional Fair.
- 49 awards were earned by AMES Students
- Major monetary scholarships:
 - 10 K Symantec Scholarship
 - 80 K Scholarship to Westminster
 - 12 scholarships to Westminster worth \$4,000 each
 - Total of \$138,000 in scholarships
- International Science Fair Finalists
 - One Individual Intel ISEF Grand Champion
 - One Team Intel ISEF Grand Champions
 - One Individual Intel ISEF Alternate Grand Champion
- AMES students entered in 12 of the 17 categories. 14 projects received category awards (7 – 1st place, 4 – 2nd place, 3 – 3rd place)
- 10 projects received special awards (18 special awards to AMES)
- AMES students were mentored by professors at the University of Utah, and Westminster College.

National Science Foundation Grant

In the second year of a three year grant to encourage participation and retention of high school students in the engineering field, AMES has 8 students working with University of Utah Chemical Engineering Department students and professors. The project entails developing plans for sustainable energy production through photo voltaic resources. All eight of these students will participate at the Utah State Engineering Camp and present their findings at the bio technical conference at the University of Utah this summer.

Science Olympiad

15 AMES students participated and three received honorable mention.

Utah State Math Contest

Based on the American Math Competition Test administered in February the top five students in each grade went to this contest. An AMES Freshman placed 2nd in the individual category. Our Freshman Team placed 2nd and the Sophomore Team placed 3rd. AMES competes in the small school category.

AMES Award Banquet (6th Annual)

This year 99 AMES students were recognized for their outstanding achievement in school related programs.

University of Utah Partnership – School Year 08-09

1. 88 students enrolled in U of U classes taught on the AMES campus by U of U faculty/instructors.
2. 40% of students who took one or more concurrent class were defined as a minority student.
3. 44% of students who took one or more concurrent classes were defined as economically disadvantaged.
4. Classes taught: Academic Writing, Calculus, Chemistry, Chemistry Lab, Statistics, Humanities, College Algebra/Trigonometry, Physics.
5. AMES students and parents are invited to see presentations from U of U staff on admissions, financial aid, and the Honors College.
6. Campus tours for AMES Juniors and Seniors.
7. U of U faculty mentors for AMES science fair participants.
8. Two U of U college of Education projects; (1) IRB approved longitudinal study of AMES graduates attending the U of U and (2) pilot of Project Success curriculum with AMES staff, students and parents on student (affective) dispositions and college readiness for dissemination state-wide. Project Success is funded by the Board of Regents.

UBSCT Test Results for 2009

Percentage of Students Proficient after 1st Attempt

	<u>Math</u>	<u>Reading</u>	<u>Writing</u>
AMES	89%	100%	91%
State	76%	89%	73%
(AMES 2008	85%	98%	83%)

AMES Community Partnerships

(Internship Placements)

Woodstock Elementary School
University Chemistry Department/Jim Muller
EDA Architects
So Cupcake Bakery
AMES Staff
University Biology Department/Clayton Lab/Jessica Waite
The Children's Center Group Home
Cottonwood High School Music Department – Amber Tuckness
Multicultural Legal Center
Applied Technology Center
Utah Association of Realtors
Hispanic Chamber of Commerce
Heart & Lung Center-Dr. Drakos/Adult Congenital Heart Center-Dr. Whitehead
Alliance Community Services
G and R Diesel
Science Fair
UtahFM
Eisenhower Junior High/English/Peggy Davis
SpyHop
Community Writing Center
Virginia Tanner Dance Studios – Sandy
No More Homeless Pets
Pioneer Valley Hospital
Scott McHenry/Aerospace/ATK (internet contact only)
UofU Women's Resource Center/Go Girlz
Comunidades Unidas
Living Planet Aquarium
UofU Engineering NSF Project

Continuing Features

1. AMES students participate in hosted Cottonwood High School programs and classes, including debate, music, drama, art, and athletics.
2. Active PTSO with over 150 family memberships
3. Open access AP Classes include: Human Geography (9th grade), European History (10th grade), US History (11th Grade), Art History, Psychology, Calculus.
4. AMES sponsors co-curricular clubs in a variety of subjects and areas.
5. Math Saturday School: AMES staff and students offer assistance to AMES students every week at the Hunter Library (Title One supported).
6. AMES Summer School: Entering AMES freshman participate in a week long study skills camp each summer; approximately 85% participation.

Demographic Profile

	<u>9th Grade</u>	<u>10th Grade</u>	<u>11th Grade</u>	<u>12th Grade</u>	<u>Total</u>
Male	67	60	46	42	215
Female	61	68	52	30	211
Total	128	128	98	72	426
Ethnic Background	46%	53%	42%	40%	45%
MESA	94	92	67	46	393

KSL – TV

As part of adding charter school to their comprehensive database on the state's high schools, KSL attended and interviewed three students and Dr. Church at AMES' graduation. The interviews can be viewed at ksl.com.

Once KSL added the charter schools to their rankings, AMES was ranked at #4 in large schools and #1 in small schools. Criteria for the rankings are available on ksl.com schools project.

AMES website and the board packet have full transcripts of KSL's stories.