

ACADEMY FOR MATH, ENGINEERING & SCIENCE (AMES)

Mid Year Report 2007-2008

Demographics

As of January 3, 2008:	Grade 12	92
	Grade 11	89
	Grade 10	109
	Grade 9	130
	Total Students	420

1. Ethnicity (as of 1/3/08):

Caucasion	55%	Ethnicity	45%
		Asian	7.5 %
		Black	6.0 %
		Hispanic	22.0 %
		Native Am.	2.0 %
		Pacific Islander	7.5 %
2. Currently we have 28 students being serviced by an Individual Educational Plan (IEP)
3. 68 percent of our student body MESA eligible.
4. 43 percent of student body qualifies for free/reduced lunch. AMES qualifies as a Title One school.
5. The AMES student body attracts students from 25 Junior/Middle Schools in Granite and Salt Lake District, five private and five charter schools in the Salt Lake and Utah Counties.

Test Performance

1. ACT Test: AMES students average a 24 (Dec. 2007) composite for this exam.

One 2008 Senior received a 35 composite (36 perfect score) on the exam.

Of the 2007 graduates, 57 AMES graduates scored in the top 10% of Utah participants in one or more sub test of the ACT exam.
2. SAT Test: The students who have taken the SAT test have consistently scored in the 2000 range. Two AMES Seniors are National Merit Semi-Finalists.
3. CRT Tests: The spring CRT scores show that AMES students surpass their Utah peers in Biology, Physics, Geometry and Language Arts. Interventions to improve scores in Elementary Algebra and Chemistry have been put in place.
4. UBSCT Test: AMES students exceed the state average by 10 points or more on UBSCT subtests.

Graduating Class of 2007 (second graduating class – first class attending AMES since 9th grade)

1. 78 of 82 seniors qualified for designation as State Scholars (completing a rigorous college prep curriculum)
2. AMES seniors earned a total of 1,337 University of Utah credits (average of 16.3 per student). This translated into a savings to their families of \$7,335. (\$601,828 School wide)
3. College Bound Students: 67
Military Service 3
Future Plans Undecided 12

34% First Generation
39% Ethnic Minority.
52% Male, 48% Female
4. The graduating seniors for 2007 were awarded \$2.0 million dollars in scholarships.

Below is a list by college or university of the scholarships awarded to AMES, Class of 2007

In-State Colleges/Universities

University of Utah

Dept. of Metallurgical Engineering
Departmental Scholarship
Honors at Entrance
Top 10 Percent
Peggy Olson Scholarship
Clyde Christensen
Hi-Gear Scholarship
Access Scholarship
Business Departmental Scholarship
Housing Scholarships
Dan Hola Leadership
Chicano Scholarship
Larry H. Miller Scholarship
Ellis Ivory Scholarship
Hellenic Scholarship
Christiansen Scholarship
Jr. Science & Humanities Symposium
Scholarship
George S. & Dolores Eccles Scholarship
(Honors Program)
Student Achievement Scholarship
John & Irene Francis Scholarship
Employee Tuition Waiver
Merrill Engineering Scholars Fellowship
Div. of Continuing Ed. Scholarship

BYU

Half Tuition
President's Scholarship

Dixie

Deans Scholarship

Salt Lake Community College

Presidential Leadership Scholarship

Snow College

Academic Scholarship

Southern Utah University

Founders Scholarship

Utah State University

Presidential Scholarship

Resident Aggie Scholarship

Housing Scholarship

Westminster

Dean's Scholarship

Success Grant

Founders Scholarship

Out-of-State Colleges/Universities

Barnard University

Academic Scholarship

Brown University

Academic Scholarship

BYU Idaho

Award of Excellence

Academic Scholarship

University of Colorado

Chancellor's Achievement Scholarship

MIT

Academic Scholarship

Reed University

Academic Scholarship

Smith University

Academic Scholarship

Southern Virginia University

Academic Scholarship

Miscellaneous Scholarships

Gates Millennial Scholarship (06 graduate also received this award)

United States Senate Youth Program
MESA Scholarship
Larry H. Miller Employee Scholarship

U.S. Navy
Symantec Corp Science Fair Scholarship
PTSO Scholarship
Debate 4N6 Scholarship
ITT Scholarship
AMES Principals Inspiration Scholarship
ACEC Scholarship

5. AMES 2007 graduates are attending:

University of Utah
Brigham Young University
Brown University
Dixie College
ITT Technical
MIT
Purdue University
Salt Lake Community College
Smith College
Snow College
Southern Utah University
Weber State University
Westminster
Utah State University

University of Utah Partnership – School Year 07-08

1. 212 students (12th & 11th graders) currently enrolled in U of U classes taught on the AMES campus by U of U faculty/instructors. Classes being taught: Academic Writing, Calculus, Chemistry, Chemistry Lab, Statistics, Humanities, College Algebra/Trigonometry.
2. The U of U Honors College Student Presentations is given regularly to the AMES Senior Seminars.
3. Campus tours for AMES Juniors and Seniors.
4. LEAP Tutors
5. College of Education student teachers.
6. Coordination with College of Engineering NSF Project
7. Specialized AMES Community and U of U Lecture Series on the AMES campus (immigration, diversity in engineering, film studies, and science of race).
8. U of U faculty mentors for AMES science fair participants.

AMES Community Partnerships

1. Part of the requirements for graduation from AMES is that all Juniors participate in an internship. This year's internship partners include (among others):

<u>Placement</u>	<u>Career Area</u>
University of Utah NSF Engineering Project	Bio Engineering Computer Engineering Chemical Engineering Civil Engineering General Engineering Aerospace Engineering
Maliheh Clinic	Medicine
Midvale Family Clinic	Medicine
Jordan Valley Hospital	Medicine/Nursing
Rocky Mountain Therapy	Physical Therapy
Michael Watson, DDS	Dentistry
Dr. Steven Hunt	Genetics
West Valley Fitness Center	Personal training
Cottonwood Animal Hosp.	Veterinary Medicine
VCA Animal Hospital	Veterinary Medicine
Sugar House Vet Clinic	Veterinary Medicine
Hogle Zoo	Veterinary medicine
SpyHop	Music Production
Law Offices of Jose Loayza	Legal
KCM Design	Architecture
Blakemore Real Estate	Realtor

2. Ongoing business support from:
 - Micron
 - IM Flash
 - Merit Medical
3. International INTEL Science Fair Participation included two AMES students awarded Utah finalist status. They attended the International Competition in New Mexico, May 2007. An AMES 2007 graduate was awarded one of four \$10,000 Semantec scholarships.
4. AMES sponsored in 2007 five robotics teams for the ITT Robotics Mindstorm Competition, winning multiple awards.

Continuing Features

1. AMES students participate in hosted Cottonwood High School programs, including debate (AMES 2007 Graduate awarded scholarship; continues to teach part-time for CHS program while attending Westminster); other CHS programs in which AMES students participate include music, drama, art, athletics.
2. Active PTSO with over 150 family memberships.

3. Open access AP classes include: Human Geography (9th graders); World History (10th graders); US History (11th graders); Art History and Psychology.
4. AMES sponsors co-curricular clubs including student council, newspaper, yearbook, literary magazine, rocketry, robotics, garden, veggie, GASA, and chess.
5. AMES is one of 10 of the 130 ECHS in the US participating in a Kellogg Foundation grant to incorporate writing in all curriculum areas.
6. Math & Physics Saturday School: AMES staff and students offer assistance to 50-60 AMES students every week at the Hunter Library.
7. AMES Summer School: Entering AMES freshman participate in a week long study skills camp each summer; approximately 85% participation.