







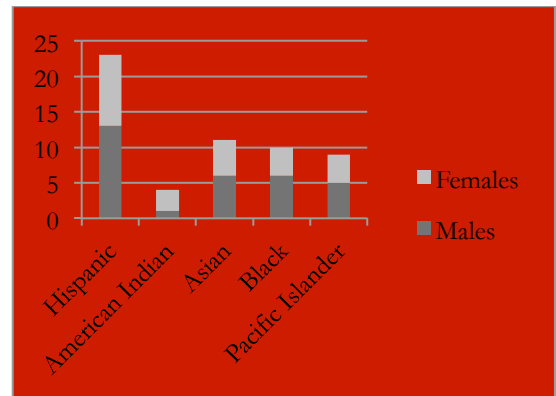
ACADEMY FOR MATH, ENGINEERING & SCIENCE

YEAR END REPORT 2010 - 2011

GRADUATING CLASS OF 2011 - AMES 6TH GRADUATING CLASS

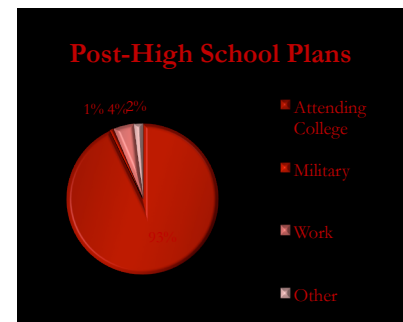
Graduation was held on June 3, 2011 at Libby Gardner Hall on the University of Utah Campus at 2:00 p.m.

-  113 Students graduated from AMES (1 student was a 2nd quarter graduate, 1 student was a 3rd quarter graduate).
-  49 Graduating Females
-  64 Graduating Males
-  26 graduating students identify as First Generation College Students.
-  48 graduating students identify as economically disadvantaged.
-  51% of graduating students identify as ethnic minority.



105 of 113 (93%) graduating seniors have declared they are going to a college or university. College or Universities include:

1 American University	6 Southern Utah University
6 BYU Provo	1 Stanford University
1 California Institute of Technology	2 University of Pennsylvania
1 College of the Canyons	1 University of Pittsburgh
1 Colorado School of Mines	34 University of Utah
1 Creighton University	5 Utah State University
3 Dixie State College	5 Utah Valley University
1 Drexel University	2 Weber State University
1 Iowa Lakes Community College	1 Western Wyoming College
1 New York Film Academy	7 Westminster College
23 Salt Lake Community College	
1 Snow College	



SCHOLARSHIPS AWARDED TO AMES GRADUATES

2011 graduates were awarded scholarships in the amount of **\$5,814,837**.

19 graduates have been recognized as Utah Scholars and received certificates and medallions.

33% of graduates were eligible for the Regents Scholarship (minimum \$1,000 scholarship).








1 graduate has been awarded the Bill & Melinda Gates Foundation Gates Millennium Scholarship.

2 graduates have been recognized as National Merit Scholarship Awardees.





6 graduates have been awarded Mesa Scholarships valued at \$1,000 each.

3 graduates were identified as finalists for the U.S. Presidential Scholars Program.





University of Utah scholarships awarded to AMES graduates included:

-  Honors at Entrance
-  Presidential Scholarship
-  Eccles Distinguished Scholars Award
-  Engineering Scholarship (JETS)
-  Top Ten Percent
-  Access Scholarship
-  Oser Scholarship




Westminster scholarships awarded to AMES graduates included:

-  Presidential Scholarship
-  Dean's Scholarship
-  NCSSMST Scholarship
-  National Merit Semi-Finalist (Half Tuition)
-  Founder's Scholarship
-  SOMOS Scholar
-  Utah Science & Engineering Awards
-  Horizon Scholarship




Utah State University scholarships awarded to AMES graduates included:

-  Presidential Scholarship
-  Dean's Scholarship
-  Aggie Scholarship
-  Resident Achievement


Snow College scholarships awarded to AMES graduates included:

-  Academic Excellence Award
-  Academic Merit
-  Scholastic Merit



Southern Utah University scholarships awarded to AMES graduates included:

-  President's Scholarship
-  Dean's Scholarship
-  Honor's Living Learning Center Scholarship
-  Academic Scholarship

Weber State University scholarships awarded to AMES graduates included:

-  Achievement Scholarship

Brigham Young University scholarships awarded to AMES graduates included:

-  School of Music Scholarship
-  Half-Tuition Scholarship

Other Scholarships awarded to AMES graduates included:

-  2009-10 Debutante Scholarship
-  A.J. Drexel Scholarship
-  ACEC Scholarships
-  ACLU Youth Activist Scholarship
-  American Express Scholarship
-  American University Scholarship
-  Arizona Excellence Award
-  Athletic Scholarships (Iowa Lakes Community College/Western Wyoming Community College)
-  Beloit College Trustees Scholarship
-  Calmurphy Scholarship (University of Montana)
-  CalTech Institutional Scholarship
-  Chancellor's Scholarship (University of Denver)
-  Colorado State Recognition Award
-  Comcast Leadership Scholarship
-  Creighton Magis Scholarship
-  Dean's Scholarship (Colorado School of Mines)
-  Dean's Scholarship (Lewis & Clark College)
-  Distinguished Scholar (Arcadia University)
-  Energy Solutions Scholarship
-  Fondo Futuro Scholarship
-  Garrett Provost Scholarship (Bradley University)
-  Gateway Scholarship/Gateway Trustee Award (Ohio University)
-  John Carroll University Scholarship
-  Lincoln Scholarship, Founder's Scholarship (Knox College)
-  Linfield Trustee Scholarship
-  Marquette University Magis Scholarship
-  New Faculty Scholarship (Hampshire College)
-  NYFA Merit Scholarship
-  President's Scholarship (University of the Pacific)
-  Presidential Scholarship (Carroll College)
-  Presidential Scholarship (Xavier University)
-  Presidential Scholarship, Saints Scholarship, Recognition Scholarship (College of Saint Benedict)
-  Rice University Trustee Distinguished Scholarship
-  Sam Walton Community Scholarship
-  Sandra J. Bromley Scholarship
-  Sesquicentennial Scholarship/Presidential Achievement Award (St. Lawrence University)
-  St. Ignatius Scholarship
-  St. John's University Presidential Scholarship
-  Trustee Scholarship, Dean's Scholarship (University of Puget Sound)
-  Trustee Scholarship, Eva Ellsworth Dungan Music Award (Cornell College)
-  UC Berkeley Leadership Scholarship
-  University of Houston Top Tier Scholarship
-  University of Pennsylvania Institutional Scholarship
-  University of Pittsburgh Full-Tuition Scholarship
-  USC Dean's Scholarship
-  UVU PLP Leadership Scholarship
-  Veterans of Foreign Wars Voice of Democracy Scholarship
-  Whitman College Anderson Scholarship
-  Zinch Born in '92 Scholarship


UNIVERSITY OF UTAH PARTNERSHIP 2010 - 2011


According to the 2011-2012 University of Utah Tuition Schedule, Undergraduate Tuition (Residents) per credit hour amounts to \$459.89 (*not including fees*).

100 of 113 graduating seniors acquired University of Utah credit while attending AMES totaling **1,400 credit hours** equaling **\$643,846** of savings for our AMES families. *In addition, AMES funded all student textbooks and related materials.*


During the 2010 – 2011 school year, **116 AMES students (grades 10 – 12)** acquired University of Utah totaling **1,157 credit hours** equaling **\$532,092** of savings for our AMES families. *In addition, AMES funded all student textbooks and related materials.*


Demographics of Students Participating in University of Utah Courses (2010 – 2011)		
	Percentage	Totals
Students in U of U courses:		116
Gender		
Male	48%	56
Female	52%	60
Total:		116
Race/Ethnicity		
Caucasian/White	51%	59
Hispanic	21%	24
Asian	13%	15
Black/African American	8%	9
American Indian/Alaskan Native	3%	4
Pacific Islander/Native Hawaiian	4%	5
Total:		116

 University of Utah courses available to AMES students included: Writing 1010/2010, Honors College Humanities, Introduction to Quantitative Reasoning (Math 1030), College Algebra & Trigonometry (Math 1050/1060), Introduction to Statistical Inference (STATS 1070), Calculus 1210/1220, General Chemistry 1210/1220 & General Chemistry Lab 1215/1225, & Physics for Scientists and Engineering 2210/2220.

 AMES families were invited to presentations from U of U staff about admissions, financial aid & Honors College.

 AMES students participated in U of U campus tours and student conferences.

 U of U mentors were provided for AMES science fair research students.





 Omelets & Admissions/FAFSA Day: Three times during the year, AMES administration and counselors, along with advisors from the U of U, come together with AMES seniors to provide assistance with completing college applications and FAFSA forms.

SCHOOL DEMOGRAPHICS – JUNE 3, 2011




	Percentage	Totals
TOTAL STUDENTS:		465
Gender		
Male	51%	234
Female	49%	231
Total:		465
Grade		
Grade 9	27%	127
Grade 10	27%	124
Grade 11	22%	101
Grade 12	24%	113
Total:		465
Race/Ethnicity		
Caucasian/White	47%	220
Hispanic	23%	104
Asian	9%	42
Black/African American	7%	34
American Indian/Alaskan Native	4%	17
Pacific Islander/Native Hawaiian	10%	48
Total:		465

TEST PERFORMANCE 2010-2011



1. ACT PERFORMANCE

-  AMES participated in an ACT pilot program, allowing **every** AMES junior to take the ACT at no cost.
-  99 of 102 AMES juniors took the ACT on March 1, 2011. **The average composite score for AMES juniors is 21.**
-  94 of 113 graduating seniors took the ACT. **The average composite score for AMES seniors is 24.** *The state average ACT composite score for 2010 is 21.8; the national average ACT composite score for 2010 is 21.*
-  **37 of AMES students** taking the ACT scored in the top ten percent (10%) in each test section.


2. SAT PERFORMANCE

-  AMES students who have taken the PSAT/SAT test have consistently scored in the 1600 – 2000 range.
-  Five AMES seniors were identified as National Merit Semi-Finalists for 2011.
-  Two AMES seniors were recognized as National Merit Finalists for 2011.

3. PLAN (Pre-ACT)

-  AMES 10th grade students' composite score was 19.3. The national average is 17.5.
-  **41 of AMES sophomores** were awarded certificates of recognition for scoring in the top ten percent of students taking the ACT's PLAN Program.

4. EXPLORE

-  AMES 9th grade students' composite score was 17.7. The national average is 16.1.

AMES COMMUNITY PARTNERSHIPS – INTERNSHIP PLACEMENTS 2010 - 2011

AMES English Department	Re-Store by Habitat for Humanity
AMES Technology Department	S'PLORE
Benchmark Civil Engineering	Salt Lake Peer Court
Brickyard Animal Clinic	So Cupcake Bakery
Centro de la Familia	South Valley Large Animal Clinic
Comunidades Unidas	SpyHop Digital Design
Community Writing Center	SpyHop Film
Dancing Cats Feline Health Center	SpyHop Records
Ella Publishing	Twin Peaks Elementary School
GP Photography	University of Utah – Engineering Department - Materials Science Lab
Great Salt Lake Institute at Westminster College	Utah Museum of Natural History – Archeology Department
IHC – Intermountain Medical Center	Utah Museum of Natural History – Design Department
Ken Sanders Rare Books	Virginia Tanner Dance Studios
Living Planet Aquarium	Wasatch Community Gardens
Maliheh Clinic	Zion's Bank Graphic Design
Newcomers Program at Cottonwood High School	
Pate Baird Law	
Psomas Engineering	

CONTINUING FEATURES

1. AMES students participated in Cottonwood High School programs including music, drama, debate, art and athletics. **Senate Bill 235 was passed allowing charter students to participate in extracurricular activities at traditional public schools where their charter classes are also held. AMES administration, families, and students advocated on behalf of SB235 during the school year.**
2. AMES possesses an active PTISO with over 250 family memberships. AMES PTISO sponsored and supported many AMES activities including: Omelets & Admissions events, FAFSA Day, teacher dinners during parent/teacher conferences, ACT/PSAT student breakfasts, and the end of year barbeque! AMES PTISO also sponsored our annual Barnes & Noble Fundraiser.
3. Open Access AP classes including: Human Geography (9th grade), European History (10th grade), U.S. History (11th grade), Art History, Psychology, Calculus and Statistics.
4. AMES sponsors co-curricular clubs including

AMES GSA	Music Club
AMES/CHS Interact Club	Newspaper
Chemistry Club	Peer Tutoring
Chess Club	Ping Pong Club
Ecology Club	Pod Squad
Fashion Design/Strategy	Rocket Club
FIRST Robotics	Sketchbook Club
Future Doctors	Soccer Club
Gardening Club	Student Council
Kids Helping Kids	

5. Math Saturday School: AMES staff and AMES student tutors offered assistance to AMES students every week at Hunter Library funded by Title One.
6. AMES Summer School: Entering AMES freshman participate in a three-day study skills camp each summer; approximately 85% participation. AMES students also participated in math & engineering camps hosted at the University of Utah, Utah State University and Weber State University.

STUDENT ACCOMPLISHMENTS 2010 - 2011

Salt Lake Valley Science & Engineering Fair (SLVSEF)

AMES has participated in SLVSEF for the past 6 years, 5 have resulted in one or more AMES students attending the Intel International Fair. During the 2010-11 school year, AMES students accomplished the following:

-  AMES earned a total of 36 awards.
 - Charles Blakemore – Overall Grand Champion Winner
1st Place in Biochemistry
Competed at the International Science & Engineering Fair
– Received 4th place overall in Grand Awards
 - Lindy Clark – Grand Champion Winner, Alternate, Social Sciences
Competed at the International Science & Engineering Fair
 - Shwan Javdan - 1st Place in Environmental Sciences (4 additional awards)
ISWEEP (International Sustainable World Energy Engineering Environment) Winner of two (2) awards
U.S. Stockholm Science Competition, summer 2011
 - Nicholas Corpuz - 1st Place in Environmental Management
ISWEEP (International Sustainable World Energy Engineering Environment) Winner & Awardee
 - Matthew Vitelli - 1st Place in Computer Science
 - Nayeli Padilla - 1st Place in Animal Sciences (3 overall awards)
 - Tia Thomas - 1st Place in Medicine and Health Sciences

State Math Contest – Utah Valley University – March 16, 2011

AMES students scored in the top five ranking schools (Division 2) for grades 10 - 12

GRADE	SCHOOL	SCORE
10	NUAMES	246
10	UCAS	227
10	AMES	223
10	KANAB H.S.	219
10	WATERFORD	215

GRADE	SCHOOL	SCORE
11	WATERFORD	355
11	K.G.M.PREP	315
11	UCAS	277
11	NORTH SEVIER	209
11	AMES	203

GRADE	SCHOOL	SCORE
12	AMES	335
12	WATERFORD	329
12	UCAS	243
12	K.G.M. PREP	231
12	ENTERPRISE H.S.	212

JETS (Junior Engineering Technical Society)

The JETS TEAMS program is an annual high school competition that challenges students to work collaboratively and apply their math and science knowledge in practical, creative ways to solve real everyday engineering challenges. The TEAMS Competition helps develop “STEM-capable” students in an engaging way by showing them how math and science, with engineering focus, are used to make tangible differences in the world.

Focused on a theme each year, original academic and innovative concepts are developed for the competition based on the National Academy of Engineering’s Grand Challenges. Tackling these challenges requires critical job-readiness skills such as collaboration, analytical thinking, and multidimensional problem-solving. (<http://www.jets.org>).

During this school year, **sixteen (16)** AMES students competed on two separate teams, JV and Varsity. **Both teams scored 1st place in the State division.**

AMES students were recognized with distinguished awards at an AMES luncheon, sponsored by Doug Hendricks (JETS TEAM mentor/coach) and Brian McGill.

FIRST Robotics Competition

AMES Robotics Team competed in the Western Regional FIRST Robotics Competition on April 7 – 9, 2011, at the University of Utah. AMES students produced one of the most effective defensive strategic bots in the competition and made it successfully to the semi-finals. A total of 31 teams participated at the regional competition. **AMES Robotics Team placed 5th place overall in the competition.**

The 2010-2011 AMES Robotics Team was sponsored by the J.C. Penney Corporation, Applied Signal Technologies & AMES family contributions!

Utah State High School Chess Championship

Five AMES students participated in the Utah State High School Chess Championship 2011 (1A, 2A, 3A division) hosted at West Jordan High School. AMES Chess Team won 2nd place overall in the 1A-2A-3A division.

AMES students accomplished the following individual awards:

- Jose Garcia – 1st Place in the 11th grade (tie), received 4th place trophy.
- Bryson Christensen – Received 6th place trophy for 11th grade.
- Simon Gaspar – Received 10th place trophy for 11th grade.

Bad Dog Arts Youth Gallery and Recognition

Three AMES students (Narnia Brockman, Abigail Sloan, and Anni Nelson) were chosen to participate in the first Youth Gallery Stroll organized by Bad Dog Arts. Bad Dog inspires, supports, and celebrates youth through cultural diversity and art expression. The three AMES students’ art exhibits were on display downtown on May 20, 2011.