



State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

Tom Cheatham, Dean





The Science of Success

State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

Tom Cheatham, Dean

Everyone has inside him a piece of good news. The good news is that you don't yet realize how great you can be!

-Anne Frank

- **Staff Changes**
- **Never Before**
- **Awards**
- **Successes in Teaching**
- **Successes in Scholarship**
- **Successes in Service**
- **Successes in Collaborations**
- **Did we reach our goals?**
- **Goals for 2003-2004**
- **Dean's Evaluation by Faculty**



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Staff Changes

We are not sent into this world to do anything into which we cannot put our hearts.

-John Ruskin

- Phil Mathis, Interim Dean of Honors College
- Robert Carlton, Chair PHYS & Interim Associate VP for Research
- Diane Miller is Interim Associate Dean
- Lynn Parsons named Director of SON
- Michaele Chappell, Interim Chair MATH
- Charles Perry named Interim Chairholder of Russell Chair of Manufacturing Excellence
- Jim Van Wicklin, CBAS Development Officer
- Barbara Knox, Coordinator, Minority Alliance
- Helen Gleason is the new Advisor in Nursing
- Mandy Burns, new Executive Aide in Chemistry
- Linda Gibbons, new Executive Aide in Nursing



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Never Before (1)

There are no shortcuts to any place worth going.

-Beverly Sills

- More than 4900 majors in CBAS
- More than 200 faculty
- 2 departments > 900 majors (NURS+CHEM)
- Graduate over 625 in 2003-2004 year
- Advised over 1300 new students for F'04
- Taught over 17,000 students/sem in 03-04
- CBAS had a Development Officer
- CBAS had Coordinator for Minority Students
- Reduced curriculum to 120 hours



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Never Before (2)

It is amazing
what you can
accomplish if
you don't
care who
gets the
credit.

-Harry S.
Truman

- CBAS faculty sit on 72 national and 49 state boards
- Trained pilots in a new fleet of airplanes
- Purchased \$400K glass-cockpit simulator
- "Piloted" a new FAA curriculum
- Received \$1M earmark for CKNB expansion
- Hosted back-to-back national IHSA
- Hosted the national flight team competition
- 4th Year to win ≥ 6 Foundation Awards
- CBAS won 3 distinguished research awards
- 5 faculty/3 students @ NASA labs for summer



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Never Before (3)

If someone can stand on my shoulders and take their dream to a higher level, maybe that's success, too.

-Steve Potter

- Two years in a row PHYS students won Provost award (J. Munday, A. Farmer)
- Entered NASA Moon Buggy (2) competition
- Completed NASA robotics challenge (1st, US)
- Entered 3 bikes in solar competition & won 1st prize in design, 2nd, 3rd, 4th in main event
- Won 1st place in US in horse judging contest
- CHEM's Farris won national teaching award
- CHEM's Hendrickson won ACS Overcoming Obstacles Award
- AERO graduate Hyatt served as NIFA Pres.
- CBAS won 2 Ebony Awards (Butler, Knox)
- 3rd year in row CBAS won Teach/Tech Award



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College of Basic & Applied Sciences (CBAS)

Never Before (4)

The whole idea of living is to believe the best is yet to be.

-Peter Ustinov

- Received \$3.2M lead abatement grant (Beard, Mathis)
- Received \$1.7M STEP_{MT} grant for UR (Friedli, Rowell, Robertson, Cheatham)
- ETIS submitted over \$9M external proposals
- Eight departments submitted over \$2.5M in external proposals
- Five departments received over \$1M each in external proposals
- 3rd *Basic Highlights* sent to 13,000 alumni
- Created a CBAS Advisory Council (CAC)



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College of Basic & Applied Sciences (CBAS)

Awards 2003-2004 (1)

Year	MTSU	State	Nat'l	Dept	Stu	Diff
03-04	6 + 9	2	14	7	14	62 + 5
02-03	6 + 5	7	6	5	13	70+2+2
01-02	6 + 3	9	4	8		68+JK
00-01	7 + 1	2	1	6		70+7

2003-2004 MTSU Foundation Awards (6):

- Pam Roesler, Outstanding Teacher Award
- Nicole Welch, Outstanding Achievement in Instructional Technology
- Jo Edwards, Outstanding Public Service Award
- Andrienne Friedli, Distinguished Research Award
- Steve Howard, Distinguished Research Award
- Xiaoya Zha, Distinguished Research Award

CBAS Wall of Fame: <http://www.mtsu.edu/~collbas/univ-awards>



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Awards 2003-2004 (2)

National Awards (14):

- Anne Brzezicki, IHSA Coach of the Year
- Bill Allen, USAF Technical Achievement Award
- Matt Elrod-Erickson, Phi Beta Kappa
- Michael Sanger, Award for Excellence in Teaching/Learning/Technology
- Linda Covington, "Rising Research Star" Award
- Phil Mathis, McGraw-Hill President's Club
- Suzanne Prevost, Lifetime Contribution Award, AACCN
- Suzanne Prevost, Distinguished Alumni Award
- Suzanne Prevost, "Hero of Public Housing Award," Erie, PA
- Chuck Higgins, Lisa Bloomer, Ahad Nasab, Gail Zlotky, Suk Seo: NASA Labs

State Awards (2):

- David Gore, TBR Distance Education Award
- Kevin Downs, TN FAA Public Service Award



State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

Awards 2003-2004 (3)

MTSU Awards, Other than Foundation Awards (9):

- Barbara Knox, Ebony Administrator of Year Award
- William Butler, Ebony Teacher of Year Award
- Marlene Lawson, MTSU Administrative Employee of Year Award
- Anne Smith, MTSU Clerical Employee of Year Award
- David Gore, MTSU Distance Education Award
- Dave Whitaker, Alpha Gamma Rho Brother of Year Award
- Heather Brown & Chuck Higgins, Pi Kappa Alpha Outstanding Faculty
- Ron Henderson, Xi Beta Faculty Award

Departmental Awards (7):

2003-04 MFT Student Performance Awards:

- ABAS, 7th year in a row (2)
- AERO
- CSCI, 2nd year in row
- MATH, 3rd year in row
- NURS, 7th year in a row
- PHYS—Award for Highest Score on Academic Profile, 2nd year in a row



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Awards 2003-2004 (4)

Student Awards (14):

- Adam Farmer, MTSU Provost Award, 1st place CBAS UR Award + ...
- Heather Adams, TN SNA Student Nurse of the Year
- Linda Hendrickson, ACS WCC Overcoming Obstacles Award
- Brett Harris, Summer REU @ Max Born Institute in Berlin
- Mark Durrett (U), Alice Quan (U), Julianna Donahue (G): NASA Labs Summer '04
- C. Romer, B. Cosky, K. Phillips, A. Farmer, J. LeBoeuf, J. Dahmen, J. Trageser, R. McWhirter, and L. Hendrickson won awards @ TAS
- ABAS—1st place in national horse judging contest
- ETIS—1st Place in NASA Robotics Contest, 4th & 5th place in NASA Moon Buggy Contest, 2nd, 3rd, 4th place in national Solar Bike Race
- NURS—SNA Chapter: Outstanding Community Service Award & Gold Precious Medal Award

One can do anything at all, if provided with a passionate and gifted teacher. -Pat Conroy



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CBAS Awards 2003-2004 (5)

Dept	Classroom Teaching	Helpful to Students	Research	Grantsmanship	Service	UG Research Mentoring	Advising
AERO	Steve Gossett	Gail Zlotky	John Bertrand	Paul Craig	Don Crowder	Bill Allen	Gerald Hill
ABAS	Jessica Gentry	Tony Johnston	Kevin Downs	Rhonda Hoffman	Warren Anderson	Cliff Ricketts	Anthony Halterlein
BIOL	Matt Elrod-Erickson	William Butler	Steve Howard	Cindi Smith-Walters	Kim Sadler	Rebecca Seipelt	Amy Jetton
CHEM	Amy Phelps	Tammy Melton	Tibor Koritsanszky	Norma Dunlap	Jim Howard	Andrienne Friedli	Preston MacDougall
CSCI	Roland Untch	Chrisila Pettey	Ralph Butler	Jungsoon Yoo	Judy Hankins	Jungsoon Yoo	Entire CSCI faculty
ETIS	Chong Chen	B.S. Sridhara	Ahad Nasab	Don Beard Kathy Mathis	Saeed Foroudastan	Heather Brown	Al Carter
MATH	Dennis Walsh	Ginger Rowell	Rong Luo	Dovie Kimmins	Don Campbell	Raj Barnwal	Elaine Tenpenny
M S	Robert Riedel	Dwayne Wright					
NURS	Judy Campbell	Jennifer Spann	Linda Covington	Maria Smith	Pam Roesler	Stephen Krau	Sheila Marquart
PHYS	Chuck Higgins	Ron Henderson	Bill Robertson	Nayer Eradat	Eric Klumpe	Bill Robertson	Mari Weller

We are not here merely to make a living. We are here to enrich the world with a finer spirit of hope and achievement—and we impoverish ourselves if we forget the errand. -Woodrow Wilson



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Successes 2003-2004: Overview

Yr	Taught	Make Diff	# Prpls	\$ Prpls	# Won	\$ Won	# Pubs	# Pres	# Serv	# Clbs
03-04	36,987	62	313	~36M	229	~10M	295	485	2021	2510
02-03	35,463	74	310*	~\$45M	204	~\$8M	264	444	1891	1919
01-02	33,209	69	239	~\$22M	166	~\$10M	165	265	713	N/A
00-01	32,529	77	149	~\$12M	104	~\$4M	128	266	678	N/A

* Includes gifts too

Not everything that can be counted counts and not everything that counts can be counted.

-Albert Einstein



State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

Successes in Teaching (1)

DEPT	FALL 2002			FALL 2003			FALL 2004			2002-->2003		2003-->2004	
	FAC	MAJ*	SCH	FAC	MAJ*	SCH	FAC	MAJ**	SCH	% Inc Maj	% Inc SCH	% Inc Maj	% Inc SCH
ABAS	10	416	2,775	13	419	2,632	13	397	2,822	1.4%	-4.2%	-5.2%	1.8%
AERO	13	642	3,786	13	682	4,217	13	692	4,463	6.2%	11.4%	1.5%	5.8%
BIOL	41	384	13,633	42	414	14,606	42	465	14,380	4.7%	8.1%	12.3%	-1.5%
CHEM	27	834	7,573	26	889	8,807	26	908	10,190	6.0%	18.4%	2.1%	15.7%
CSCI	14	397	4,338	14	356	3,884	15	308	3,371	-9.3%	-1.5%	-13.5%	-13.2%
ETIS	18	624	3,821	18	672	4,285	19	695	4,233	7.2%	11.8%	-2.2%	-1.2%
MATH	35	154	12,168	37	164	13,064	38	199	13,855	4.5%	9.3%	21.3%	6.1%
NURS	21	844	3,170	21	1,087	3,558	22	1,227	4,113	30.5%	12.2%	12.9%	15.6%
PHYS	10	24	2,510	11	29	2,368	13	28	3,004	25.0%	-3.9%	-3.5%	26.9%
TOTAL	189	4,319	53,774	197	4,712	57,421	201	4,949	60,749	9.1%	8.6%	5.0%	5.8%

*Fall 2003 number of majors does not include ~40 University Studies majors.

**Fall 2004 number of majors does not include ~30 University Studies majors.

Note: Numbers for Fall 2004 are preliminary (as of 9/8/04) and not official. The census date (14th day of classes) is the official count date. MS generated 334 SCH for Fall 2003 and 318 SCH for Fall 2004 which are not included.

Our business in life is not to get ahead of others, but to get ahead of ourselves. -Maltbie Babcock



State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

2003-04 Successes in Teaching (2)

Making a Difference July 1, 2003 - June 30, 2004

Department	# Faculty 2003-04	# Faculty Nominated	% Faculty Nominated	# Students Graduating	Tot # of Fac Nominations	# Nom/Fac
ABAS	13	6	46%	62	8	0.6
AERO	13	6	46%	116	13	1.0
BIOL	42	16	38%	97	22	0.5
CHEM	26	5	19%	51	7	0.3
CSCI	14	6	43%	48	10	0.7
ETIS	18	6	33%	106	7	0.4
MATH	37	5	14%	23	6	0.2
M S	6	0	0%		0	0.0
NURS	21	7	33%	95	15	0.7
PHYS	11	4	36%	6	6	0.5
Totals	201	61	30%	604	94	0.5

Janet Kelly (ABAS), Ann Nored (CHEM), Ann Smith (CHEM), Nancy Garner (MS) and Debbie Hudson (MS): non-faculty employees nominated in 2003-04.

Making the most of what we have turns it into more.



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College of Basic & Applied Sciences (CBAS)

Successes in Teaching (3)

A strong positive mental attitude will create more miracles than any wonder drug.

-Patricia Neal

Making a Difference in Lives of Students:

- 62 faculty + 5 staff = 67
- 100 total nominations
- Nominated 5 times (S. Wright, S. Marquart)
- Nominated both fall and spring:
 - ABAS: Kelly, Downs, Ricketts
 - AERO: Allen, Crowder, Hill, Zlotky
 - CSCI: Detmer, Hankins
 - MATH: Morris
 - NURS: Marquart, Parsons, Ward
 - PHYS: Montemayor
- Staff: Garner, Hudson, Kelly, Nored, Smith
- Dept Chairs (5 of 10): Detmer, Foutch, Montemayor, Murphy, Parsons



State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

Successes in Teaching (4)

CBAS 2003-04 Fall Student Evaluations of Faculty

(Sum of Almost Always and Usually)

	ABAS	AERO	BIOL	CHEM	CSCI	ETIS	MATH	MS	NURS	PHYS	CBAS	MTSU
1. Well Prepared	99%	95%	97%	96%	98%	91%	94%	100%	90%	98%	95%	97%
2. Answers Questions Effectively	90%	90%	91%	85%	96%	87%	82%	100%	87%	94%	88%	92%
3. Presents Clearly	88%	90%	88%	82%	94%	84%	79%	100%	85%	92%	85%	91%
4. Accessible Outside Class	96%	90%	89%	80%	93%	90%	87%	94%	87%	93%	88%	91%
10. Treats Courteously	98%	95%	97%	96%	98%	96%	94%	100%	93%	98%	96%	96%

The difference between 'involvement' and 'commitment' is like an eggs-and-ham breakfast: the chicken was 'involved' - the pig was 'committed'.



State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

Successes in Teaching (5)

Outstanding Classroom Teachers:

Some people think that as soon as you plant a tree, it must bear fruit. We must allow it to grow a bit.

-Prince Tunka Putra Abdul Rahman

AERO	Steve Gossett
ABAS	Jessica Gentry
BIOL	Matt Elrod-Erickson
CHEM	Amy Phelps
CSCI	Roland Untch
ETIS	Chong Chen
MATH	Dennis Walsh
M S	Robert Riedel
NURS	Judy Campbell
PHYS	Chuck Higgins



State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

Successes in Teaching (6)

Helpful/Caring Faculty:

The highest form of wisdom is kindness.

-The Talmud

AERO	Gail Zlotky
ABAS	Tony Johnston
BIOL	William Butler
CHEM	Tammy Melton
CSCI	Chrisila Pettey
ETIS	Sid Sridhara
MATH	Ginger Rowell
M S	Dwayne Wright
NURS	Jennifer Spann
PHYS	Ron Henderson



State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

Successes in Teaching (7)

Outstanding UR Mentors:

We are what we think.
All that we are arises with our thoughts.
With our thought we make the world.

-The Buddha

AERO	Bill Allen
ABAS	Cliff Ricketts
BIOL	Rebecca Seipelt
CHEM	Andrienne Friedli
CSCI	Jungsoon Yoo
ETIS	Heather Brown
MATH	Rajesh Barnwal
M S	
NURS	Stephen Krau
PHYS	Bill Robertson



State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

Successes in Teaching (8)

Outstanding Faculty Advisors:

If you are too busy to help those around you, you're too busy.

-Bob Moawad

AERO	Gerald Hill
ABAS	Anthony Halterlein
BIOL	Amy Jetton
CHEM	Preston MacDougall
CSCI	Entire CSCI faculty
ETIS	Al Carter
MATH	Elaine Tenpenny
M S	
NURS	Sheila Marquart
PHYS	Mari Weller



State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

Successes in Scholarship (1)

Outstanding Researchers:

AERO	John Bertrand
ABAS	Kevin Downs
BIOL	Steve Howard
CHEM	Tibor Koritsanszky
CSCI	Ralph Butler
ETIS	Ahad Nasab
MATH	Rong Luo
M S	
NURS	Linda Covington
PHYS	Bill Robertson

Sometimes I sits and thinks, and sometimes I just sits.

-Satchel Page



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College of Basic & Applied Sciences (CBAS)

Successes in Scholarship (2)

Outstanding Grant Writers:

I have not failed. I've just found 10,000 ways that won't work.

- Thomas A. Edison

AERO	Paul Craig
ABAS	Rhonda Hoffman
BIOL	Cindi Smith-Walters
CHEM	Norma Dunlap
CSCI	Jungsoon Yoo
ETIS	Don Beard Kathy Mathis
MATH	Dovie Kimmins
M S	
NURS	Maria Smith
PHYS	Nayer Eradat



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College of Basic & Applied Sciences (CBAS)

Successes in Service

Outstanding in Service:

AERO	Don Crowder
ABAS	Warren Anderson
BIOL	Kim Sadler
CHEM	Jim Howard
CSCI	Judy Hankins
ETIS	Saeed Foroudastan
MATH	Don Campbell
M S	
NURS	Pam Roesler
PHYS	Eric Klumpe

When people are serving, life is no longer meaningless.

-John Gardner



State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

2003-04 Publication Successes (1)

CBAS 2003-04 Publications Summary

7/1/03 through 6/30/04

Dept	# Fac	Inter/ Natl	Reg/ State	Books	Book Chpt.	Manuals	In- Press	In- Rev	Other	Dept Total	# pubs/ fac	# fac partic	% fac partic
ABAS	13	12	0	0	2	7	0	0	23	44	3.4	11	85%
AERO	13	2	1	1	0	0	1	1	27	33	2.5	3	23%
BIOL	42	11	1	0	3	1	10	18	8	52	1.2	22	52%
CHEM	26	18	1	0	2	0	1	2	14	38	1.5	13	50%
CSCI	14	8	3	0	2	0	3	0	0	16	1.1	12	86%
ETIS	18	17	0	0	0	0	3	6	6	32	1.8	8	44%
MATH	37	11	0	1	2	0	11	4	5	34	0.9	13	35%
NURS	21	8	0	0	2	0	7	7	6	30	1.4	6	29%
PHYS	11	1	0	1	0	0	5	6	3	16	1.5	7	64%
TOT	195	88	6	3		8	41	44	92	282	1.4	95	49%

The wisest man has something yet to learn. -George Santayana



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State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

2003-04 Publication Successes (2)

National refereed publications:

<< Incredible Work >>

- S. Foroudastan: 7 + 2 in-press + 5 submitted
- S. Prevost: 3 + 3 in-press + 1 submitted + 2 abstracts
- T. Koritsanszky: 6
- L. Parsons: 5 + 1 in-press + 2 abstracts
- R. Luo: 3 + 3 in-press + 2 submitted
- V. Kholodnyi: 2 + 3 in-press + 1 book chapter
- M. Sanger: 5
- K. Downs: 4 + 3 refereed abstracts
- S. Sridhara: 4

If a man does
his best,
what else is
there?

- Gen. George
S. Patton



The Science of Success

State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

2003-04 Publication Successes (3)

National refereed publications:

<< Incredible Work >>

- M. Chappell: 1 + 3 books (2 in-press) + 1 book chapter
- R. Butler: 3 + 1 book chapter
- G. Benz: 2 + 2 in-press + 1 book chapter in-press
- X. Zha: 2 + 2 in-press
- J. Gentry: 3 + 1 refereed abstract
- R. Hoffman: 3 + 1 local publication
- H. Djuanidi: 2 + 3 refereed abstract + 2 other

National publications:

<< Incredible Work >>

- P. Craig: 27 articles in on-line aviation journal

Whether you think that you can, or that you can't, you are usually right.

- Henry Ford



State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

2003-04 Publication Successes (4)

I find that the harder I work, the more luck I seem to have.

- Thomas Jefferson

National refereed publications:

<<Fantastic Work>>

- Howard, Leblond, Klukowski, Walck, Cahoon, A. Farone (BIOL)
- Phelps, Friedli, Wulfsberg (CHEM)
- Sarkar, Seo (CSCI)
- Boles, Brown (ETIS)
- Y. Melnikov, Zack Sinkala (MATH)
- Ward, Crockett, Edmisson (NURS)
- Robertson, Henderson, Eradat



State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

Grants (External + Internal + Gifts)

Year	# Proposals Submitted	Total \$ Requested	# Grants Funded	Total \$ Funded
03-04	313*	\$35.8M	229	\$9.6M
02-03	310*	\$44.7M	217	\$7.9M
01-02	239*	\$22.5M	166	\$9.7M
00-01	149*	\$12.3M	104	\$4.3M

**Includes external, internal, and gifts*

Success usually comes to those who are too busy to be looking for it.

- Henry David Thoreau



State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

External Grants + Gifts

Year	# External Submitted	\$ External Submitted	# External Funded	\$ External Funded
03-04	185*	\$34.2M	116	\$8.0M
02-03	180*	\$42.4M	100	\$5.9M
01-02	155*	\$20.6M	114	\$8.5M
00-01	76*	\$11M	53	\$3M

**Includes external proposals and gifts*

Many of life's failures are people who did not realize how close they were to success when they gave up. -Thomas A. Edison



State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

2003-04 External Grants + Gifts

CBAS 2003-04 External Grants Summary, 7/1/2003 through 6/30/04

Dept	# Fac	# Prop Sub	Total \$\$K Sub	# Prop Fund	Total \$(K) Fund	\$Cont	Total (K) \$Fund + \$Cont	# Fac Sub	% Fac Sub	# Props/ fac
ABAS	13	56	\$3,119	48	\$290	\$0	\$290	7	54%	4.3
AERO	13	6	\$370	6	\$370	\$357	\$727	5	38%	0.5
BIOL	42	36	\$4,954	12	\$304	\$694	\$998	14	33%	0.9
CHEM	26	13	\$8,931	6	\$1,721	\$575	\$2,296	8	31%	0.5
CSCI	14	10	\$3,378	3	\$64	\$50	\$114	6	43%	0.7
ETIS	18	31	\$9,130	22	\$3,577	\$0	\$3,577	9	50%	1.7
MATH	37	14	\$2,762	9	\$1,968	\$48	\$2,016	11	30%	0.4
NURS	21	6	\$3,194	3	\$1,052	\$171	\$1,223	4	19%	0.3
PHYS	11	10	\$3,404	5	\$1,809	\$192	\$2,001	6	55%	0.9
Deans	2	3	\$2,786	2	\$1,886	\$300	\$2,186	2	100%	1.5
Totals	197	185	\$34,245	116	\$8,006	\$2,195	\$10,201	72	37%	0.9

Includes \$1.7M NSF-STEP (as funded). Does not include 660K NSF-PFI for CIM or Christy-Houston 750K (as funded, only as submitted)

A minute's success pays the failure of years. -Robert Browning



State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

External Grant Successes (1)

- CSCI: 13 of 14 faculty involved in grantsmanship (some continuing grants)
- Largest proposal submitted: C. Ricketts, Hydrogen Fuels, \$2.9M
- Largest funded grant: \$3.2M, HUD LEAP (Beard & Mathis)
- Next largest funded: \$1.7M, NSF-STEP (Friedli, Robertson, Rowell, Cheatham)
- Next largest funded: \$1 M, HHS Nursing Expansion (Parsons, Prevost)
- A. Friedli won \$1.7M and had \$542K in continuing grants
- H. Brown submitted 6 external proposals for over \$5,300,000
- K. Sadler submitted 11 external proposals for over \$1,250,000
- Biology had 5 continuing grants for over \$700K
- ETIS submitted over \$9M in external proposals, first time ever
- CHEM submitted over \$8M in external proposals, 2nd year in a row
- The dean assisted with 2 successful proposals totaling \$2.4M and managed two continuing grants for over \$300,000

You may be disappointed if you fail, but you are doomed if you don't try.

-Beverly Sills



State-of-the-College Address

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Internal Grants (1)

Year	# Internal Submitted	\$ Internal Submitted	# Internal Funded	\$ Internal Funded
03-04	128	\$1.6M	113	\$1.6M*
02-03	130	\$2.3M	117	\$1.9M*
01-02	84	\$2.1M	52	\$1.3M*
00-01	73	\$1.3M	51	?

**TAF Proposals are included (2003-04: 20 submitted for \$1,454,587; 12 funded for \$893,694.)*

Argue for your limitations and sure enough, they're yours. -Richard Bach



State-of-the-College Address

College of Basic & Applied Sciences (CBAS)

Internal Grants (2)

Dept	# Faculty	# Faculty Submitting	# Props Submitted	Total \$\$K Submitted	# Props Funded	Total \$\$K Funded	# Props /Fac	% Faculty Submitting
ABAS	13	9	31	\$101	30	\$100	2.4	69%
AERO	13	3	5	\$165	5	\$165	0.4	23%
BIOL	42	14	19	\$389	19	\$389	0.5	33%
CHEM	26	10	15	\$311	13	\$300	0.6	38%
CSCI	14	4	8	\$100	5	\$84	0.6	29%
ETIS	18	7	17	\$195	14	\$178	0.9	39%
MATH	37	7	8	\$39	8	\$39	0.2	19%
NURS	21	9	14	\$233	13	\$223	0.7	43%
PHYS	11	4	12	\$83	7	\$53	1.1	36%
Totals	195	67	129	\$1,616	114	\$1,531	0.7	34%

67 CBAS faculty submitted 128 internal proposals totaling \$1,542,000 winning 113 for \$1,432,000; 113/128 = 88% success rate



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College of Basic & Applied Sciences (CBAS)

Presentations (1)

CBAS 2003-04 Presentations Summary

7/1/2003 through 6/30/04

Dept	# Fac	Int/Nat Invited	Int/Nat	Reg/State Invited	Reg/State	Local	Dept Total	# pres /Fac	# fac partic	% fac partic
ABAS	13	4	5	0	48	38	95	7.3	13	100%
AERO	13	0	10	0	0	0	10	0.8	7	54%
BIOL	42	2	21	2	30	40	95	2.3	25	60%
CHEM	26	0	19	0	28	26	73	2.8	16	62%
CSCI	14	1	7	0	11	0	19	1.4	10	71%
ETIS	18	0	19	0	6	49	74	4.1	10	56%
MATH	37	2	16	0	5	12	35	0.9	16	43%
NURS	21	0	23	6	7	32	68	3.2	17	81%
PHYS	11	0	7	0	7	1	15	1.4	6	55%
Deans	2	0	1	0	0	1	2	1.0	1	50%
TOT	197	9	128	8	142	199	486	2.5	121	61%

Before sunlight can shine through a window, the blinds must be raised. -American Proverb



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College of Basic & Applied Sciences (CBAS)

Presentations (2)

Outstanding Presentation Records for 2003-04:

- 100% of ABAS faculty made at least one presentation
- ABAS & BIOL each had 95 presentations
- NURS had 23 int/national presentations (with 21 faculty)
- Suzanne Prevost, 11 int/national including 2 invited + 4 local
- Lynn Parsons, 7 int/national including 2 invited + 1 state
- Saeed Foroudastan, 7 national
- Karen Ward, 6 int/national + 1 local

The mind grows by what it feeds on. -Josiah Holland



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College of Basic & Applied Sciences (CBAS)

2003-04 Service Successes (1)

7/1/2003 through 6/30/04

Dept	# Fac	Natl Boards	State Boards	Prof	Public	University			Univ Total	Dept Total	#act/fac	# fac partic	% fac partic
						MTSU	CBAS	Dept					
ABAS	13	6	4	45	124	19	4	36	59	238	18.3	13	100.0%
AERO	13	16	1	15	2	94	2	32	128	162	12.5	10	76.9%
BIOL	42	10	28	337	9	3	4	55	62	446	10.6	33	78.6%
CHEM	26	10	8	56	35	34	7	70	111	220	8.5	21	80.8%
CSCI	14	0	0	30	5	12	5	2	19	54	3.9	14	100.0%
ETIS	18	4	1	40	19	23	8	210	241	305	16.9	13	72.2%
MATH	37	0	0	46	3	20	4	103	127	176	4.8	26	70.3%
NURS	21	26	7	81	63	30	12	81	123	300	14.3	20	95.2%
PHYS	11	0	0	13	83	8	13	4	25	121	11.0	9	81.8%
TOT	195	72	49	663	343	243	59	593	895	2022	10.4	159	81.5%

There is a wisdom of the head, and ... a wisdom of the heart. -Charles Dickens



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College of Basic & Applied Sciences (CBAS)

2003-04 Service Successes (2)

- 100% of ABAS & CSCI faculty participated in service activities
- 95% of NURS faculty participated in service activities
- ABAS & ETIS faculty average over 16 service activities/faculty
- NURS faculty serve on 26 national boards and 7 state boards
- BIOL faculty serve on 28 state boards
- ABAS faculty serve on 6 national and 4 state boards
- Terry Dorris completed 84 university service activities
- Heather Brown completed 67 department service activities
- Austin Cheney completed 65 university/department service activities
- John Zamora completed 64 public service activities
- Eric Klumpe completed 60 public service activities
- Harley Foutch completed 56 public service activities
- Jim Howard completed 21 department + 17 professional service activities
- Padgett Kelly reached over 4,000 school children with his whale presentation
- Rebecca Seipelt completed 27 professional service activities
- Kim Sadler completed 25 professional service activities



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College of Basic & Applied Sciences (CBAS)

2003-04 Collaboration Successes (1)

Faculty/Faculty Collaborations 7/1/2003 through 6/30/04

Dept	# Fac	# F/FC Total	# collab/ fac	# fac partic	% fac partic
ABAS	13	89	6.8	13	100%
AERO	13	128	9.8	10	77%
BIOL	42	145	3.5	20	48%
CHEM	26	208	8.0	21	81%
CSCI	14	50	3.6	12	86%
ETIS	18	8	0.4	9	50%
MATH	37	8	0.2	5	14%
NURS	21	48	2.3	11	52%
PHYS	11	68	6.2	8	73%
TOT	195	752	3.9	109	56%

F/F C = Faculty/faculty Collaborations

We are not creatures of circumstance; we are creators of circumstance. -Benjamin Disraeli



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College of Basic & Applied Sciences (CBAS)

2003-04 Collaboration Successes (2)

Faculty/Student Collaborations 7/1/2003 - 6/30/04

Dept	# Fac	Collabs	UGR	# F/SC Total	# fac partic	collab/fac	% fac partic	# fac UGR	% fac UGR
ABAS	13	560	7	567	13	43.6	100%	3	23%
AERO	13	412	0	412	10	31.7	77%	0	0%
BIOL	42	123	258	381	21	9.1	50%	21	50%
CHEM	26	86	83	169	21	6.5	81%	4	15%
CSCI	14	12	4	16	8	1.1	57%	3	21%
ETIS	18	143	40	183	7	10.2	39%	7	39%
MATH	37	3	6	9	4	0.2	11%	3	8%
NURS	21	4	3	7	3	0.3	14%	3	14%
PHYS	11	1	13	14	6	1.3	55%	3	27%
TOT	195	1344	414	1758	93	9.0	48%	47	24%

UGR = Undergraduate Research

Education is the progressive discovery of our own ignorance. -Will Durant



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College of Basic & Applied Sciences (CBAS)

2003-04 Collaboration Successes (3)

Outstanding F/F collaborations:

- Terry Dorris & Gerry Hill, 100 each
- Jeff Walck, Rebecca Seipelt, Andrienne Friedli, Gary Wulfsberg, Jim Howard, Judith Iriarte-Gross, Bill Ilsley, Nayer Eradat, Marion Wells over 20 each

The best collaborators with students:

- Anne Brzezicki (466), Don Crowder (182), Gerry Hill (100), John Bertrand, Wayne Dornan (40), Don Beard (48), David Hatfield (40), Rhonda Hoffman (30), Jessica Gentry & Cliff Ricketts (25)

Undergraduate Research Successes:

- Saeed Foroudastan (105), Steve Howard (100), Andrienne Friedli (75), Judith Iriarte-Gross (60), Rebecca Seipelt (42), Tony Farone (30), Ken Sergeant (20)

For it is not
light that is
needed, but
fire. We
need the
storm, the
whirlwind
and the
earthquake
in our lives.

- Fredrick
Douglass



The Science of Success

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College of Basic & Applied Sciences (CBAS)

CBAS Goals

- A change in culture
- A greater role in improving education in K-21 in the disciplines housed in the college
- A college that is the first-choice resource for middle Tennessee

Do what you can, with what you have, where you are.

-Theodore Roosevelt

The most powerful agent of change is a change of heart.

- B.J. Marshall



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College of Basic & Applied Sciences (CBAS)

A change in culture... (03-04) How?

- Increase grants, publications, presentations, service activities, collaborations by 5% over last year <Yes, grants=25%, publications=12%, presentations=9%, service=7%, collaborations=31%>
- Host monthly CBAS Research & Teaching/Learning seminars <Yes, Suzanne Prevost>
- Support faculty travel to visit funding sources <Yes>
- Secure funding for undergraduate research <Yes, \$1.7M NSF STEP proposal with Friedli, Robertson, Rowell>
- Engage CBAS faculty in EPSCoR project with UT <Yes>
- Publish *Basic Highlights Magazine* <Yes, sent to 13,000>
- Establish major development initiatives for CBAS, <Yes, Scholarships>



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College of Basic & Applied Sciences (CBAS)

Improve education in K-21 (03-04)How?

- Take advantage of the NASA Center <No, slow progress>
- Win a NSF TE and/or TP Grants <No>
- Build a strong college-wide undergraduate research program <Slow progress, STEPmt will help>
- Improve advising across the college <Slow progress>
- Seek approval for Ph.D. in Science Education <Slow progress>
- Improve capacity & quality of the nursing program <Slow progress, increased class size 20% & took one extra class>
- Earn national reputation for horse science <Progress>
- Make MTSU Aerospace #3 in US <Yes, maybe, some progress>
- Merge farm laboratories <No>
- Secure federal funds to distribute CIM program <Yes>
- Support TLSAMP and METS <Yes>
- Continue great outreach programs: EYH, Science Olympiad, Camp PRISM, Math contests, Farm Fun Day, Project SEED, Breakfast/Champions <Yes>



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College of Basic & Applied Sciences (CBAS)

First-choice resource for MT (03-04)

- Improve teacher preparation programs through grants & NASA Linking Leaders <Slow progress>
- Develop a design for a “Technical Solutions Center” through which faculty and students solve real world problems <No>
- Increase faculty consulting activities and faculty start-up companies <Slow progress>
- Increase the number of faculty and students in federally funded summer programs by 50% <Progress, STEPmt may help>
- Gain support for the horse science program using the CIM model <Slow progress, created alumni chapter>

We don't stop playing (working) because we grow old; we grow old because we stop playing (working). -Satchel Paige



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College of Basic & Applied Sciences (CBAS)

Dean's Evaluation by Faculty

Dean Evaluation by Faculty 2003-04

Dean Evaluation by Faculty 2003-04							
		Poor	Mediocre	Good	Excellent	No Idea	
Overall rating		17	28	34	22	8	
		Never	< 1/2	1/2-time	Most	Always	No Idea
Confidence in dean to manage		15	15	19	39	12	3
		Declined	Some -	No Change	Some +	Improved	
Change in program quality		12	13	18	42	15	

"A pessimist sees the difficulty in every opportunity; an optimist sees the opportunity in every difficulty." - Sir Winston Churchill



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College of Basic & Applied Sciences (CBAS)

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