



The Science of Success

State-of-the-College

College of Basic & Applied Sciences (CBAS)

Tom Cheatham, Dean

When a fellow blames others for his failures, it's a good idea to credit someone else with his successes.

-Howard G.
Kirksey

- **Did you know?**
- **Awards**
- **Success in Teaching**
- **Success in Scholarship**
- **Success in Service**
- **Did we reach our goals?**
- **Goals for 2002-2003**



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DID YOU KNOW 2001-2002 (1)?

Do not be discouraged.
We have it on good authority that it took Noah six months to find a parking place.

-Dr. Kirksey

- 181 faculty; 55 full-time staff; (F '02)
75 graduate assistants
- 207 graduate students
- ~4289 majors
- Graduated ~500 last year;
advised ~1100 new students
- Taught ~15,000 students/semester
- 10 departments
 - AERO
 - BIOL
 - CSCI
 - MATH
 - NURS
 - ABAS
 - CHEM
 - ETIS
 - MS
 - PHYS



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DID YOU KNOW 2001-2002 (2)?

It is funny how the unexpected always happen when you least expect it.

-Dr. Kirksey

- In my book, you are ALL “essential personnel”
- >425 times last year the dean sent email congratulating/thanking CBAS faculty
- We mailed the 1st ever Basic Highlights Magazine to over 8,000 alumni
- Hold nursing clinics at 43 different sites across middle Tennessee
- Have 7 full-time staff managing the operations at our airport center + 20 flight instructors



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DID YOU KNOW 2001-2002 (3)?

Be thankful for your problems. If they were less difficult someone with less ability would have your job.

-Dr. Kirksey

- Have 5 full-time staff managing the 700+ acres & herds on our farm labs
- Have an expert machinist in ETIS & wonderful “toys” for prototyping
- Will hire a Chemical Hygienist in the Chemistry Department in 2002-03
- 4 faculty & 7 students were awarded federally funded internships in summer '02
- CBAS funded 13 undergraduate research grants to students in 01-02



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Work will substitute for a lot of things but nothing will substitute for work.

-Dr. Kirksey

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DID YOU KNOW 2001-2002 (4)?

- Preston McDougal (CHEM) & Don Beard (ETIS) were both invited to lecture in China
- Hosted successful:
 - **Regional math conference, Martin**
 - **EYH, Breakfast of Champions, Iriarte-Gross**
 - **Fall Farm Festival, Downs & Mehlhorn**
 - **Regional flight competition, Hill**
 - **Univ-wide faculty research symposium, Prevost**
 - **Undergraduate research symposium, Mullen**
 - **Science Olympiad, P. Patterson & Phelps**
 - **College Awards Ceremony, S. Yoo**
 - **Two math contests, Beck, Kimmins**



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DID YOU KNOW 2001-2002 (5)?

There are always
to many
ready to carry
the stool
when there is
a piano to be
moved.

-Dr. Kirksey

- Received approval for new Associate Dean of Research and Outreach (Ray Phillips, 904-8410)
- Received approval for CBAS Career Coordinator (Maggie Prugh, 494-8911)
- Reclassified Chuck Conway as Director of CBAS Computing (898-5518)
- Opened (NASA) TN Center for Advancement of Math, Science, & Technology Education
- Received support to locate NASA Center & Environmental Ed Center in Belle Aire
- Hosted 17 college-wide seminars in which 350 CBAS faculty participated in 2001-02



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DID YOU KNOW 2001-2002 (6)?

If we do not change our direction, we are likely to end up where we are headed.

-Chinese proverb

- Hired 36 new/replacement faculty
- Won 6 of 17 university-wide awards 01-02
- CBAS faculty have won ≥ 1 Outstanding Teacher Award for each of last 11 years
- Developed a partnership with UTSI to collaborate on programs in AERO & CSCI
- Hosted college-wide NASA visit & further developed partnerships with NASA Headquarters, MSFC, LaRC
- Hosted MTSU NSF-Day



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The feeling that you have done a job well is rewarding; the feeling that you have done it perfectly is fatal.

-Dr. Kirksey

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DID YOU KNOW 2001-2002 (7)?

- Military Science commissioned eleven 2nd Lieutenants
- Opened the biotechnology laboratory in DSB
- Received support from Dr. McPhee to refurbish the Executive Airplane
- The milk pasteurizer was repaired ...
- 25,000 lbs of hazardous waste removed DSB
- Internet 2 is coming to campus (R. Detmer)
- CIM Patrons & Dr. McPhee visited US Secretary of Ed, Dr. Rod Paige



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DID YOU KNOW 2001-2002 (8)?

An optimist is a guy who figures he's already had all of his bad breaks.

-Dr. Kirksey

- 10 BIOL faculty serve as reviewers for 29 different journals
- Biology filled 9 faculty positions
- Mathematical Sciences filled 8 faculty positions
- Nursing filled 7 faculty positions
- Aerospace filled 7 positions last year
- Cliff Rickets & students in ABAS hold world speed record in a hydrogen-powered vehicle
- Harley Foutch served as national President of AASCARR in 2001-02



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DID YOU KNOW 2001-2002 (9)?

It is not what is poured into the student, but what is *planted*, that counts.

-Dr. Kirksey

- Paul Craig has trained 189 flight instructors, 3rd largest # in US w/ 91% pass rate
- Biology is the only department at MTSU to ever win the Career Achievement Award
- ABAS was the only department at MTSU to undergo a THEC review for duplication of programs
- Ralph Butler: Fellow @ Argonne N. Labs
- Eric Klumpe: nominated for the RAS



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Awards 2001-2002 (1)

Year	MTSU Awards	Regional Awards	National Awards	Awards to Depts	Making Difference
01-02	6+3	9	4	8	68+JK
00-01	7+1	2	1	6	70+7

2001-2002 MTSU Foundation Awards:

- Mary Jane Lavender, Outstanding Teacher Award
- Patricia M. Patterson, Outstanding Teacher Award
- Patricia A. O'Leary, Outstanding Achievement in Instructional Technology
- Mary C. Enderson, Outstanding Achievement in Instructional Technology
- Gary P. Wulfsberg, Distinguished Research Award
- Marion R. Wells, Career Achievement Award

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



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Awards 2001-2002 (2)

Year	MTSU Awards	Regional Awards	National Awards	Awards to Depts	Making Difference
01-02	6+3	9	4	8	68+JK
00-01	7+1	2	1	6	70+7

National Awards:

- Padgett Kelly, National Marine Educator's Award
- Judy Campbell, National Institutes of Senior Centers Research Award
- Judith Gross, Innovative Recognition of Women in Chemistry
- Suzanne Prevost, "Great 100 Alumni" @ Texas Women's University

MTSU Awards:

- Janet Kelly, Employee of the Year
- Cliff Ricketts, Womack Distinguished Service Award
- Sara Barlow, Outstanding Honors Faculty Member
- Karen Ward, OWLS Best Professor Award



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Awards 2001-2002 (3)

Year	MTSU Awards	Regional Awards	National Awards	Awards to Depts	Making Difference
01-02	6+3	9	4	8	68+JK
00-01	7+1	2	1	6	70+7

Regional Awards:

- Joey Mehlhorn, Outstanding Agribusiness Leader
- Kevin Downs, Outstanding Agribusiness Leader
- Bill Allen, FAA District Safety Counselor of Year
- John Zamora, TIPS Trainer of the Year Award
- L. Covington, L. Parsons, S. Prevost, K. Ward; Distinguished Lecturer for Sigma Theta Tau
- Judith Iriarte-Gross, ACS Salutes to Excellence



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Awards 2001-2002 (4)

Year	MTSU Awards	Regional Awards	National Awards	Awards to Depts	Making Difference
01-02	6 + 3	8	4	8	68 + JK
00-01	7 + 1	2	1	6	70 + 7

Departmental Awards:

- BIOL, Governor's Conservation Award to Environmental Ed Center (Smith-Walters and Kelly)
- AERO, ABAS(2), ETIS(2), NURS: MFT Performance Awards
 - ABAS Animal Science Program, 5 years in a row
 - NURS Program, 5 years in a row
 - PHYS, Academic Profile Award
 - PHYS, highest score on Academic Profile @ MTSU



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Successes 2001-2002: Overview

Year	Taught	Make Diff	# Proposals	\$ Proposals	# Won	\$ Won	# Pubs	# Pres	# Serv
01-02	33,209	69	239	~\$22M	166	~\$10M	165	265	713
00-01	32,529	77	149	~\$12M	104	~\$4M	128	266	678

- **Every good thing all 10+174+55+225+3700 of you did last year is a success for the college!**
- **Data is for July 1, 2001 – June 30, 2002**
- **Prop. include documented gifts (59 horses, 1 plane, etc)**
- **Proposal could be funded and not included in # or \$ submitted**
- **NSF PFI (Wright/Seipelt) funded in 8/02 for \$835,000 not counted in funded list; 19 proposals pending for \$4,949,867**



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Successes in Teaching (1)

DEPT	FALL 2001			FALL 2002			% Inc Majors	% Inc SCH
	# FACULTY	# MAJORS*	SCH	# FACULTY	# MAJORS*	SCH		
AERO	12	566	3,750	12	637	3,771	12.5%	0.6%
ABAS	7	441	2,800	8	411	2,788	-6.8%	-0.4%
BIOL	38	360	12,794	40	380	13,732	5.6%	7.3%
CHEM	24	727	7,678	25	833	7,689	14.6%	0.1%
CSCI	14	457	4,203	14	398	4,408	-12.9%	4.9%
ETIS	16	545	3,519	17	604	3,773	10.8%	7.2%
MATH	33	142	11,930	34	153	12,447	7.7%	4.3%
NURS	21	636	3,030	21	850	3,175	33.6%	4.8%
PHYS	9	25	1,895	10	23	2,556	-8.0%	34.9%
TOTALS	174	3,899	51,599	181	4,289	54,339	10.0%	5.3%

*# of Majors does not include ~30 University Studies majors.

Note: Numbers for Fall 2002 are preliminary and not official. September 1 is the official count.



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Successes in Teaching (2)

A smile is a curve that straightens out a lot of things.

-Dr. Kirksey

HELPFUL/CARING FACULTY:

- ABAS: Cliff Rickets
- AERO: Steve Gossett
- BIOL: Sarah Swain
- CHEM: Judith Bonicamp
- CSCI: Jungsoon Yoo
- ETIS: Heather Brown
- MATH: Elaine Tenpenny
- MS: Ed Evans
- NURS: Karen Ward
- PHYS: Bill Robertson



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Successes in Teaching (3)

Many want what quality education brings; only a few want what brings quality education.

-Dr. Kirksey

OUTSTANDING CLASSROOM TEACHER:

- ABAS: Joey Mehlhorn
- AERO: John Bertrand
- BIOL: Dennis Mullen
- CHEM: Pat Patterson
- CSCI: Ralph Butler
- ETIS: Don Beard
- MATH: Don Nelson
- MS: Rob Riedel
- NURS: Pam Roesler
- PHYS: Eric Klumpe



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MAKING A DIFFERENCE

Department	# Faculty	# Faculty Nominated	% Faculty Nominations	# Students Graduating	Total # of Nominations	# Nom/Fac
AERO	12	4	33%	92	6	0.5
ABAS	7	7	100%	69	10	1.4
BIOL	38	15	39%	79	22	0.6
CHEM	24	5	21%	27	5	0.2
CSCI	14	7	50%	48	9	0.6
ETIS	16	8	50%	55	9	0.6
MATH	33	8	24%	29	9	0.3
NURS	21	7	33%	86	12	0.6
PHYS	9	0	0%	2	0	0.0
Totals	174	61	35%	487	82	0.5

Janet Kelly in ABAS was the only non-faculty employee selected in 2001-02

Gerry Hill, Curt Blum, Pat Doyle, Roland Untch, Harley Foutch, Shelia Marquart named both semesters

Anthony Farone, Padgett Kelly, Karen Ward each received 3 nominations (most is CBAS)



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College of Basic & Applied Sciences (CBAS)

Publications

Department	# Faculty	# Faculty Publishing	% Faculty Publishing	National/ International	Regional/ State	Encyclo/ Problems	Non- Technical	Total Pub Items
AERO	12	5	42%	56		2		58
ABAS	7	2	29%	2+1B				3
BIOL	38	20	53%	9	2	10		21
CHEM	24	9	38%	6	1			7
CSCI	14	8	57%	7	2			9
ETIS	16	6	38%	11			11	22
MATH	33	14	42%	13		10	1	24
NURS	21	7	33%	21			6	27
PHYS	9	4	44%	3				3
CBAS Staff	3	1	33%		1			1
CBAS Totals	177	76	43%	126	6	22	18	172

B=Book, nt=non-technical; Craig=52, Parsons=8, Prevost=8 (4 nt), Sbenaty=5, Chappell=5, Krau=5, Ward=4, Boles=4 (1 nt), Melnikov=3, J. Yoo=3; Hemmerly=10 Encyclo, Truitt=7 (prob solns), Cheney=10 (nt); 33 in-press; MATH=9, CSCI=7, NURS=7, BIOL=6; 16 submitted; BIOL=12.



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Grants (External + Internal)

Year	# Proposals Submitted	Total \$ Requested	# Grants Funded	Total \$ Funded
01-02	239*	\$22.5M	166	\$9.7M
00-01	149	\$12.3M	104	\$4.3M

*239 proposals – 64 gifts = 175 submitted not including gifts
 166 funded – 64 gifts = 102 submitted not including gifts

(Gifts were included in 00-01 numbers.)

Only the guy who isn't rowing has time to rock the boat –Dr. Kirksey



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College of Basic & Applied Sciences (CBAS)

External Grants

Year	# External Submitted	\$ External Submitted	# External Funded	\$ External Funded
01-02	155	\$20.6M	114	\$8.5M
00-01	76	\$11M	53	\$3M

155 external – 64 gifts = 91 not including gifts;
 \$20,613,382 total - \$2,590,000 gifts = \$18,023,382

114 external – 64 gifts = 50 external funded not including gifts
 \$8,509,093 external funded - \$2,590,000 gifts = \$5,919,093

(Gifts were included in 00-01 numbers)



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College of Basic & Applied Sciences (CBAS)

External Grants

Dept	# Fac	# Fac Sub	% Fac Sub	# Props Sub	Total \$\$ Sub	# Props Funded	Total \$\$ Funded	# Props Pend	Total \$\$ Pending	Dean's Goal for Dept.
AERO	12	5	42%	8	\$3,708,973	5	\$2,080,209	1	\$254,000	\$1,000,000
ABAS	7	2	29%	61	\$351,904	61	\$351,904	0	\$0	\$150,000
BIOL	38	7	18%	13	\$6,867,020	5	\$1,976,000	7	\$2,702,677	\$1,000,000
CHEM	24	10	42%	16	\$6,910,443	7	\$950,392	5	\$2,554,525	\$1,000,000
CSCI	14	6	43%	5	\$789,085	4	\$389,573	0	\$0	\$500,000
ETIS	16	5	31%	23	\$1,463,809	18	\$760,342	2	\$196,830	\$650,000
MATH	33	6	18%	10	\$6,483,092	5	\$225,720	2	\$2,808,634	\$400,000
NURS	21	3	14%	5	\$848,031	3	\$655,015	2	\$146,711	\$500,000
PHYS	9	6	67%	10	\$3,084,601	5	\$1,217,390	2	\$1,330,297	\$1,000,000
CBAS	3	3	100%	12	\$3,922,711	6	\$1,678,345	3	\$1,321,802	\$2,000,000
Totals	177	53	30%	155	\$20,638,456	114	\$8,509,093	19	\$4,949,867	\$8,200,000

Does not include the BIOL NSF PFI Grant funded in early August 2002 for \$835,000 (Wright & Seipelt)
 Does include Smith-Walters \$1,200,00 TN Ag Grant; W,F,R C-RUI for ~\$809,000; TC Talent Search \$1,100,000



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External Grant Successes (1)

Largest gift: >\$2,000,000, FedEx Boeing 727, P. Craig

Largest proposal submitted: \$2,441,230, NSF STEM-TE, Enderson, R. Zilstra, Smith-Walters, & Gower, not funded

Next largest submitted: \$1,881,634, NSF MSP, Phelps, Rutledge, Kimmins, & D. Craig, pending

Largest funded grant: \$1,120,000 TN Dept of Ag, Smith-Walters

Next largest funded: \$809,000, NSF C-RUI, Wright, Friedli, Robertson

Others submitted:

\$1,309,000, NASA unsolicited, P. Craig, Not funded

\$1,000,000 US Dept of Ed ETS, Cheatham, funded

\$927,000, NSF MSP, L. Gilbert, Enderson, R. Zilstra, Lee, Gower, pending

\$889,362, NSF PGE, Iriarte-Gross, Martin, Rowell, not funded

\$835,059, NSF PFI, Wright, Seipelt, Funded in 8/02 (counted next year)

\$760,000, NASA unsolicited, Carlton & Klumpe, funded for \$340,000

\$699,860, NSF STEM-TP, Phillips & Martin, not funded

\$699,496, NSF STEP, Cheatham, pending



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College of Basic & Applied Sciences (CBAS)

External Grant Successes (2)

\$525,000, NASA, Phillips, Funded

\$511,702, HRSA Workforce Diversity, Smith, funded for \$465,397

\$403,297, NASA Biosensor, Robertson, Friedli, Wright, pending

\$402,706, NSF Lewis Stokes, Martin, pending

\$400,000, NSF CSEMS, Detmer, not funded

\$327,904, Gifts of 59 Horses, Whitaker

\$300,000, NSF HPNC (internet 2), Detmer, funded

\$282,745, NASA Johnson Center, Boles, not funded

\$254,000, NASA, P. Craig, pending

\$218,000, Stratasys Inc., McBride, funded

\$200,000, US Dept of Ed FIPSE, Brown & Cheney, not funded

Mary Martin submitted 7 proposals for \$2,105,841 (won \$48,345)

Cindi S-W submitted 4 proposals for \$3,662,387 (won \$1,160,500)

Paul Craig submitted three proposals for \$3,563,000 (won \$2,000,000)

Ron McBride received 5 grants totaling \$309,785

ETIS, ABAS, PHYS submitted more external proposals than # faculty



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College of Basic & Applied Sciences (CBAS)

Internal Grants (1)

Year	# Internal Submitted	\$ Internal Submitted	# Internal Funded	\$ Internal Funded
01-02	84	\$2,124,956	52	\$1,254,094
00-01	73	\$1.3M	51	?

TAF Proposals are included (24 submitted for \$1,988,940; 15 funded for \$1,121,780)

Some who say they will meet you half way are invariably poor judges of distance. -Dr. Kirksey



State-of-the-College

College of Basic & Applied Sciences (CBAS)

Internal Grants (2)

Department	# Faculty	# Faculty Submitting	% Faculty Submitting	# Proposals Submitted	Total \$\$ Submitted	# Proposals Funded	Total \$\$ Funded
AERO	12	2	17%	4	\$275,190	1	\$21,000
ABAS	7	1	14%	1	\$162,000	1	\$162,000
BIOL	38	16	42%	21	\$293,582	15	\$281,968
CHEM	24	15	63%	21	\$344,262	14	\$24,238
CSCI	14	5	36%	8	\$194,749	6	\$189,349
ETIS	16	4	25%	7	\$257,970	5	\$212,627
MATH	33	8	24%	11	\$188,759	6	\$86,238
NURS	21	5	24%	9	\$164,740	8	\$139,970
PHYS	9	4	44%	6	\$147,754	5	\$140,534
CBAS	3	1	33%	1	\$100,000	0	\$0
Totals	177	61	34%	84	\$2,124,956	52	\$1,254,094

61 CBAS faculty submitted 84 internal proposals totaling \$2,124,956 winning 52 for \$1,254,094

52/84 = 62% success rate



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College of Basic & Applied Sciences (CBAS)

Internal Grants (3)

- Largest funded: \$163,723 TAF by S. Swain & S. Johnson
- Next Largest: \$162,000 TAF by Joey Mehlhorn
- CHEM submitted 21 proposals for \$344,262 (a CBAS best)
- CHEM had highest percentage of faculty submitting (63%)
- BIOL won 15 for \$281,968 (both CBAS bests)

Folks who sit around waiting for their ship to come in sometimes miss the boat. -Dr. Kirksey



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College of Basic & Applied Sciences (CBAS)

Presentations (1)

Department	# Faculty	# Faculty Presenting	% Faculty Presenting	# Intl/ National	# State/ Regional	# Local	Total Pres Items	Pres./ Faculty
AERO	12	4	33%	4		2	6	0.5
ABAS	7	6	86%	6			6	0.9
BIOL	38	16	42%	13	28		41	1.1
CHEM	24	14	58%	14	9	21	44	1.8
CSCI	14	9	64%	6	9	1	16	1.1
ETIS	16	3	19%	6			6	0.4
MATH	33	13	39%	14	11	23	48	1.5
NURS	21	10	48%	25	9	23	57	2.7
PHYS	9	6	67%	6	2	17	25	2.8
CBAS	3	3	100%	3	3	10	16	5.3
Totals	177	84	47%	97	71	97	265	1.5

Most people wish things would change. Few wish they were different. -Dr. Kirksey



State-of-the-College

College of Basic & Applied Sciences (CBAS)

Presentations (2)

Faculty with outstanding presentations records:

- 20 by Suzanne Prevost
- 14 by Judith Iriarte-Gross
- 10 by Mary Martin
- 9 by John Zamora
- 8 by Maria Smith
- 7 by Michaele Chappell, Dovie Kimmins & Paul Lee
- 6 by Ginger Rowell, Lynn Parsons & Sing Chong
- 5 by Dave Whitaker, Jeff Walck, Mary Enderson & Dennis Walsh
- 4 by Becky Seipelt, Anthony Newsome, B.G. Ooi & Linda Covington



State-of-the-College

College of Basic & Applied Sciences (CBAS)

Service (1)

Department	# Faculty	# Faculty Involved in Service	% Faculty Involvement	Total Service Activities	# Act/Fac
AERO	12	3	25%	22	1.8
ABAS	7	7	100%	23	3.3
BIOL	38	30	79%	263	6.9
CHEM	24	13	54%	32	1.3
CSCI	14	11	79%	52	3.7
ETIS	16	12	75%	31	1.9
MATH	33	24	73%	52	1.6
NURS	21	17	81%	179	8.5
PHYS	9	7	78%	59	6.6
Totals	174	124	71%	713	4.1

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



State-of-the-College

College of Basic & Applied Sciences (CBAS)

Service (2)

- Marion Wells completed 44 consultations with off-campus companies
- Austin Cheney completed 44 service activities & **attended 24 conf.**
- John Zamora completed 37 (12 in Spanish) Alcohol Awareness Classes
- Eric Klumpe completed 36 service activities
- Cindi Smith-Walters completed 27 service activities
- Suzanne Prevost completed 27 service activities incl 9 prof. appointments
- Judy Campbell completed 22 service activities
- Paul Craig completed 20 service activities including 16 interviews
- Walter Boles completed 19 service activities
- Steve Wright completed 17 service activities including 13 interviews

No one would ever have crossed the ocean if he could have gotten off the ship in the storm. -Dr. Kirksey



State-of-the-College

College of Basic & Applied Sciences (CBAS)

Service (3)

- Lynn Parsons completed 16 service activities incl 7 prof. appointments
- Pam Holder completed 16 service activities
- Padgett Kelly completed 15 service activities
- Heather Brown completed 14 service activities including 6 interviews
- Saeed Foroudastan completed 13 service activities
- Sid Sridhara completed 13 service activities & **attended 17 on-campus seminars/workshops**
- Bill Robertson completed 13 service activities
- Ginger Rowell completed 12 service activities
- Patricia Patterson completed 11 service activities
- Michael Chappell completed 10 service activities

Each man's life represents a road toward himself. -Hermann Hesse



State-of-the-College

College of Basic & Applied Sciences (CBAS)

Undergraduate Research (1)

Dept	# Faculty	# Faculty Particip	%Faculty Particip	# Majors	# Stu Particip	# Projects	# Grants	# Pubs	# Pres	# Total Activities	Act/Major
AERO	12		0%	538						0	0%
ABAS	7	4	57%	440	48	9		6		15	3%
BIOL	38	8	21%	302	101	40			84	124	41%
CHEM	24	7	29%	699	25	17	4		32	53	8%
CSCI	14		0%	412						0	0%
ETIS	16	5	31%	516	29	5				5	1%
MATH	33	4	12%	105	9	11		1		12	11%
NURS	21		0%	636						0	0%
PHYS	9	4	44%	24	10	18	3	3	2	26	108%
Totals	174	32	18%	3672	222	100	7	10	118	235	6%

Total Activities : 235

PHYS had 4 students win 10 awards; 6 students in Summer '02 REU programs across US

*A promising student always does more than s/he promises. -
Dr. Kirksey*



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College of Basic & Applied Sciences (CBAS)

Undergraduate Research (2)

- Judith Iriarte-Gross mentored 16 undergraduate presentations and 4 of her undergraduates won CBAS research awards
- Bill Robertson mentored 8 undergraduate research students
- Ginger Rowell mentored 7 undergraduate research students
- Andriene Friedli mentored 5 undergraduate research students



*The best advertising can not be bought.
It is the wagging tongue of a satisfied
alumnus. -Dr. Kirksey*



The Science of Success

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Goal 1: Increase funding by 50% How?

Submit 225 proposals totaling \$18 million,

win 158 totaling \$6 M (50% increase) (Y)

- Deans: Win \$1M in grants & contracts (Y)
- ABAS: Win \$150K in grants & contracts (Y)
- AERO: Win \$1M in grants & contracts (Y)
- BIOL: Win \$1M in grants & contracts (Y)
- CHEM: Win \$1M in grants & contracts (Y)
- CSCI: Win \$500K in grants & contracts (N)
- ETIS: Win \$650K in grants & contracts (Y)
- MATH: Win \$400K in grants & contracts (N)
- NURS: Win \$500K in grants & contracts (Y)
- PHYS: Win \$1M in grants & contracts (Y)
- Dr. Ray Phillips: Win \$1M in grants & contracts (N)
- Total: > \$8 million (represents 100% increase) (Y)

The aim, if reached or not, makes great the life.

-Robert Browning



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If you are working on something exciting that you really care about, you don't have to be pushed. The vision pulls you.

-Steve Jobs

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Goal 2: Increase partnerships...How?

- Plan a state-wide initiative in SMET education through the NASA Center (N)
- Host successful joint KY + TN Academy of Sciences (Y)
- Win State Farm funding to support SMET education through the NASA Center (Y)
- Win \$750K NSF/PGE gender equity grant and involve area businesses and schools (N)
- Win NSF Teacher Enhancement Grant (N)
- Win 6 Eisenhower grants and partner with area schools to improve science and math K-12 education (4)
- Continue to host Science Olympiad, EYH, Fall Farm (Y) Festival, Computer and Math contests, etc. (Y)
- Participate in TN Arts & Sciences Consortium (Y)
- Participate in NTC and TBA (Y)
- Continue the Collaboration Symposium (N)



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Once you
accept an idea,
it's an idea
whose time
has come.

-William James

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Goal 3: Improve communication & image..How?

- Continue to publish *Basic Facts Newsletter* monthly (Y)
- Publish a college brochure; develop college logo (N/Y)
- Publish a coordinated set of program flyers, one for each program in the college (N)
- Publish a yearly college magazine, 1st issue Fall 2001 (Y)
- Host State-of-the-College address & reception (Y)
- Host at least one college-wide social each year (Y)
- Host monthly innovation lunches with specific topic (Y)
- Host monthly new/untentured faculty workshops (Y)



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Determine that the thing shall be done, and then we shall find a way.

-Abe Lincoln

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Goal 4: Expand mentoring experiences...How?

- Expand mentoring aspects of our Undergraduate Research Council programs (N/Y)
- Learn from CHEM, McNair, SSS, others (Y)
- TBR Grant for mentor training (Y)
- Ad Hoc committee of chairs & faculty focusing on faculty mentoring (Y/N)
- Ad Hoc committee of chairs & faculty focusing on student mentoring (Y/N)
- Host an innovation session on each topic to gather ideas (N)



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We are not
creatures of
circumstance;
we are creators
of circumstance.

-Ben Disraeli

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Goal 5: Support Chairs and Faculty...How?

- Fill vacant positions with full-time faculty and staff (Y)
- Hire adjuncts where necessary (Y)
- Chuck Conway will become Director of Computing for the college (and repair computers for college faculty, staff, and labs) **898-5518** (Y)
- Provide support for grant writing (Y)
- Support travel to workshops and conferences that help meet our goals (Y)
- Expand undergraduate research in the college (Y)
- Continue to support outreach programs such as Science Olympiad and EYH (Y)
- Purchase 50 new computers for faculty (30)



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Goals for 2002-2003 (1)

Our business in life is not to get ahead of other people, but to get ahead of ourselves.

- 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

-M.D. Babcock



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A change in culture... How?

I am not afraid
of storms for
I am learning
how to sail
my own ship.

-Louisa May
Alcott

- Submit 275 proposals for \$28,000,000 and win \$9,000 (50% increase)
- Publish 230 times (33% increase)
- Host monthly CBAS research seminars
- Support faculty travel to visit funding sources
- Secure funding for undergraduate research
- Complete 300 undergraduate research activities (30% increase)
- Host a CBAS-wide event in the spring



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... improve education in K-21 ... How?

- Take advantage of the NASA Center
- Win a NSF TE, TP, & GE Grants
- Build a strong college-wide undergraduate research program
- Improve advising across the college
- Seek approval for Ph.D. in Science Education
- Improve capacity & quality of the nursing program
- Earn national reputation for horse science
- Replace airplane training fleet
- Merge farm laboratories

Too many of us want to get wise without studying, rich without working, and slim without dieting.

-Dr. Kirskey



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..first-choice resource for middle Tennessee

- Improve teacher preparation programs through grants & NASA Linking Leaders
- Develop a design for a "Technical Solutions Center" through which faculty and students solve real world problems
- Increase faculty consulting activities and faculty start-up companies
- Increase the number of faculty and students in federally funded summer programs by 50%
- Gain support for the horse science program using the CIM model

Do not look
where you
fell, but
where you
slipped.

-Liberian
proverb



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College Staff 2002-2003

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HAVE A GREAT YEAR ! 😊

Quiz Answers

1. CHEMISTRY
2. PHYSICS
3. AEROSPACE
4. AEROSPACE
5. COMPUTER SCIENCE
6. CHEMISTRY
7. NURSING
8. BIOLOGY
9. BIOLOGY
10. PHYSICS
11. ENGINEERING TECHNOLOGY AND INDUSTRIAL STUDIES, CHEMISTRY
12. AEROSPACE
13. PHYSICS
14. AERO, ABAS, ETIS, NURS, PHYS
15. AGRIBUSINESS AND AGRISCIENCE, MILITARY SCIENCE
16. PHYSICS
17. MATHEMATICAL SCIENCES

The important thing is not to stop questioning. -Einstein

The strongest principle of growth lies in human choice. -George Eliot

It's a pity that the empty head, like the empty stomach, wouldn't let its owner rest until s/he puts something in it. -Howard Kirksey