

Program Prioritization Reports
College of Sciences, Angelo State University
April 1, 2011

Executive Summary

Our Mission: *To promote inquiry, literacy and service in the field of science.*

The mission and programs of the ASU College of Sciences are aligned with the university's emphasis on educating students for living and working in a competitive global society. In addition to serving over 1,400 declared undergraduate majors and minors, we fulfill an integral role in providing exemplary educational outcomes for the ASU core curriculum. Our graduates are regularly selected to the best graduate and professional schools in the country. For example, our pre-medical program has the highest per capita acceptance rate to medical schools of any higher education institution in Texas. Our Computer Science program was named one of the Top 50 in North America by The Princeton Review. That same publication described our college as "a haven for science students".

The six academic departments of Agriculture, Biology, Chemistry and Biochemistry, Computer Science, Mathematics and Physics currently offer twenty different bachelor's degree programs and two master's degree programs. Two of these degrees have been deleted as a result of this study (see below).

The college is administered by a staff of 3 FTE employees (the Dean, an Advising and Outreach Coordinator, and an Administrative Assistant). This document is submitted in response to a directive issued by the Provost and VPAA dated August 11, 2010 (see [Appendix A](#)).

As can be seen on the accompanying summary charts, the programs of the college generated a gross profit of \$6.1M in the most recent fiscal year. All programs generated more income than expenditures. Programs within the college have awarded more than 500 undergraduate degrees in the past five years while averaging a 24% increase in SCH production during the same time period. The highest growth areas are Agriculture, Computer Science, Geoscience, and Physics. The largest programs, in terms of profit-centers, are Mathematics and Biology. An initial loss in Chemistry SCH production (due to changes in Nursing program requirements) has been turned around and is back on a positive growth trend.

The average faculty member in the college generates an annual gross profit of \$96,920. In response to this study the following major actions have been taken:

- Elimination of BS in Math/Physics Certification
- Elimination of BS in Computer Science Certification
- Deletion of four courses in Business Math
- Deletion of Trigonometry with Analytical Geometry
- Numerous pre-requisite changes to enhance efficiency and vertical alignments

Links to Individual Program Prioritization Reports

[Agriculture](#)

[Biology](#)

[Chemistry & Biochemistry](#)

[Computer Science](#)

[Geoscience](#)

[Mathematics](#)

[Physics](#)

Appendix A: [*Academic Program Assessment and Prioritization Process*](#)

College of Sciences Program Prioritization Summary

	Income	Expense	Gross Profit	Degrees awarded (2006-10)	Majors	Minors	Headcount enrollment/ AY10-11	FTE Faculty	Gross Profit/FTE	SCH growth (2006-10)
Agriculture	\$1,693,383	\$920,986	\$772,397	177	318	81	1,563	9	\$85,822	45%
Biology	\$2,734,985	\$1,103,476	\$1,631,509	128	308	24	3,068	14	\$116,536	9%
Chemistry	\$1,104,507	\$543,967	\$560,540	46	39	36	1,393	7	\$80,077	-12% **
Computer Science	\$550,841	\$462,786	\$88,055	36	160	25	436	5	\$17,611	42%
Geoscience*	\$265,674	\$122,647	\$143,027	<i>New</i>	27	20	696	2	\$71,514	45%
Mathematics	\$3,352,361	\$1,132,628	\$2,219,733	71	144	26	4,485	19	\$116,828	12%
Physics	\$1,173,493	\$482,761	\$690,732	48	162	35	3,440	7	\$98,676	27%
COLLEGE TOTALS	\$10,875,244	\$4,769,251	\$6,105,993	506	1,158	247	15,081	63	\$96,921	24%
High Growth Programs	Agriculture, Computer Science, Geoscience, and Physics									
Slow or Low Growth	The "most traditional" programs (Biology, Chemistry and Math) are the low growth areas.									
Cash Cows	Core classes (BIOL, CHEM, MATH & PHYS) + Agriculture									
* Geoscience data is for first year only										
** Chemistry SCH Production bottomed out in 2008 and has been growing again since then.										

	Headcount/FTE	Majors/FTE
Agriculture	174	44
Biology	219	24
Chemistry	199	11
Computer Science	87	37
Geoscience*	348	24
Mathematics	236	9
Physics	491	28
COLLEGE TOTALS	239	22