

**1999 Planning Summary
for
The School of Engineering and Technology
(Revised 1-26-00)**

<u>Goal</u>	<u>Indicators of Progress</u>	<u>Evidence</u>
Improve enrollment	Comparative headcount data	1,953 in Fall 1998 2,042 in Fall 1999
	Comparative credit hours	38,441 in 1998-99 40,000 in 1999-00 (estimate)
	New degree programs	Interior Design-AS Technical Graphics-AS Computer Engineering-BS In preparation: Computer Graphics Tech-BS Interior Design-BS Computer Engr Tech- AS and BS
	Student diversity	14.5% minority in Fall 1998 15.0% minority in Fall 1999 8.1% international in Fall 1998 6.4% international in Fall 1999
	Pre-college programs	Successful Minority Engineering Advancement Program for 24 years during summers for 6-11 graders 100-120 students attend each summer
	Use of distributed learning	2 web-based courses offered in 1998-99 4 web-based courses offered in 1999-00
	Condensed courses	1-week OLS courses offered during the semester breaks, and summer months. 3 offered in 1998-99 and 6 in 1999-00
Articulation agreements with local institutions	Engineering Dual Degree Program with Butler University has 35 new students Functioning agreements with Ivy Tech State College, Indianapolis and Vincennes University since 1997	

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	Articulation agreements with institutions abroad	New twinning agreements signed with Hunan University, China and Mahasarakham University, Thailand Credit transfer agreements in place with Uniten, Universiti Malaya, Inti and Taylor's Colleges in Malaysia
Improve retention and graduation rates	Comparative retention rates	72% in Fall 1998 76% in Fall 1999
	Comparative 10-year graduation rates	33.5% for Fall 1987 entering class 40.3% for Fall 1988 entering class
	Satisfaction with academic advising in the school	69% satisfied in 1998 58% satisfied in 1999 Additional full-time counselor hired for engineering programs in 1999
	Mentorship programs	Special mentorship program initiated in 1999 for women students using campus and school funds
	Tutoring	School provides funds for tutoring in selected first and second year courses
	Minority students retained	72.1 % in 1998 72.6 % in 1999
	Student scholarships	\$12K to 10 students in 1998-99 \$120K to 71 students in 1999-00
Improve quality of academic programs	Review and accreditation of academic programs	Engineering programs are accredited by ABET until 2005 Most technology programs are accredited by ABET until 2001 Next visit is in Fall 2000 All but three departments went through IUPUI Review
	Student admission statistics	Average SAT is 1084 in Fall 1998 Average SAT is 1116 in Fall 1999
	Equipment expenditures in teaching laboratories	\$1.08M spent in 1997-98 \$890K spent in 1998-99

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	Capital Campaign	School goal is \$12M by 2005 \$2.8M is reached by end of 1999
Increase research and scholarly activities	Research grants and contracts	\$1.9M for 28 awards in 1997-98 \$1.7M for 35 awards in 1998-99 \$1.2M for 21 awards in 1999-00 during the first half of 1999-00
	Faculty publications	2.23 per full-time faculty in 1997-98 1.91 per full-time faculty in 1998-99
	Collaborative research with local universities	Extensive collaboration with Schools of Medicine, Dentistry, and Science as well as Purdue University, W. Lafayette
	Collaborative research with universities abroad	Faculty, graduate student, and research scientist exchange with Tsing Hua University, China, Lyon University, France, Istanbul Technical University and Middle East Technical University in Turkey
Improve connections with industry	Industry and alumni advisory groups	Active Dean's Industrial Advisory Council, program advisory boards, and School Alumni Association
	Master project agreements	One in place with Raytheon since 1997, another pending with Ford
	Internships for students and senior design projects	42 internships in 1997-98 43 internships in 1998-99 Senior design project sponsorships are now actively sought
	Faculty sabbaticals in industry	1 faculty in 1997-98 1 faculty in 1999-00

Goals for 2000

The school will pursue the same goals in 2000 as for 1999.

School of Engineering and Technology Significant Accomplishments of 1999

1. The School attracted 22 academically strong high school graduates with SAT scores of 1200 or above among the fall 1999-freshman class. The students received close to \$120K worth of scholarships from IUPUI, the School, and industry partners of the School.
2. About 36 full-time students were enrolled in the Engineering Dual Degree Program, a joint five-year program with Butler University. The students are co-admitted to IUPUI and Butler University; they live on Butler University campus and will attend classes on both campuses. At the end of five years, students successfully completing the program will receive science degrees from Butler University and engineering degrees from IUPUI.
3. The School signed course and program articulation agreements with Hunan University, China, and Mahasarakham University, Thailand. Accordingly, engineering students from these universities will come to IUPUI after their first two years of study in their institutions, to complete their engineering degrees.
4. The Indiana Commission of Higher Education has approved a new Bachelor of Science degree program in computer engineering. The program will reside in the Department of Electrical and Computer Engineering that has changed its name from the Department of Electrical Engineering to reflect the new program.
5. The web-based certificate program in Biomedical Electronics Technology has been designed for the employees of Roche Diagnostics and the first of four courses was offered on the web using Oncourse during fall 1999 to about 50 students, employed by Roche across the USA. Students traveled to IUPUI for a day to complete their laboratory requirement.
6. Electrical and mechanical engineering programs received the maximum of six years of accreditation by ABET (Accreditation Board for Engineering and Technology, Inc.).
7. All of the external advisory groups of the school (program, department, school, and alumni) met together for the first time in August 1999. A one-day retreat served as the kick-off event for the School's 2000-03 Strategic Planning exercise.
8. Three faculty members published textbooks. Professor Joy Starks of Computer Technology co-authored the "Microsoft Publisher 2000" with Gary Shelly and Thomas Cashman, published in Shelly Cashman Series. Professor Maurice Bluestein of Mechanical Engineering Technology was the co-author for "Thermodynamics and Heat Power" with Irving Granet. This Prentice Hall book is widely used by engineering technology programs in the country. Professor Jack Zecher of Mechanical Engineering Technology published "Pro/ENGINEER Tutorial and Multimedia CD." Professor Sergey Lyshevski of Electrical and Computer Engineering was the author of "Electromechanical Systems, Electric Machines, and Applied Mechatronics," published by CRC.
9. The IUPUI student chapter of the National Society of Black Engineers is recognized, second year in a row, as the Chapter of the Region,

covering the states of Indiana, Illinois, Michigan, Wisconsin, and Ohio.