

Strategic Plan

Purdue University

Department of Computer and Information Technology

Mission

The Department of Computer and Information Technology educates professional practitioners and managers of information technology, accelerates information technology transfer to business and industry, and develops innovations in the application of emerging information technology through learning, engagement, and discovery by its faculty and students.

- To its students, the department provides world-class curricula that facilitate student-centered and laboratory-based **learning** of information technologies that are relevant to their lives and careers, valuable in terms of content and competencies, and connected to the needs of industry.
- To industry, the department produces practitioner-oriented information technology professionals and future leaders who can immediately contribute to problem solving and business results through application of information technology. Computer and Information Technology actively partners with industry through **engagement** that both contribute to life-long learning as well as the **discovery of application** of information technology solutions to business needs.
- To other educators, the department is a partner through **professional service** and **discovery of learning** that extends the frontiers of information technology education and outreach.
- To society, the department is a citizen and partner that advance the economic and social development of the State of Indiana, the nation, and the world through **technology transfer**.

Vision

The Department of Computer and Information Technology will be nationally recognized as a benchmark institution for educating professionals, practitioners, and future leaders of existing and emerging information technologies, and advancing economic development through engagement and discovery partnerships with business, industry, and government.

Core Values

Reflecting the uniqueness of a land-grant institution, and specifically Purdue University and the School of Technology, the following shared core values serve as the foundation for our commitment in the Department of Computer and Information Technology:

- **A focus on learning.** The department is committed to provide its students the highest-level environment, support, and expectations necessary to be successful.

- **Preeminence in learning requires engagement and scholarship.** The department believes that engagement and discovery are inextricably linked to the learning mission and that faculty and student involvement in engagement and discovery activities are necessary to enhance faculty development, improve student learning, and achieve the integration and effective use of technology in business and industry.
- **A balance of theoretical and experiential learning.** The department believes that the learning of technology is best accomplished through intensive and challenging theoretical, experiential, and laboratory-based instruction.
- **Problem solving as more important than technology.** The department believes that problem solving and organizational value should drive the need for and application of information technology. Thus, in its teaching, engagement, and research activities, it consistently emphasizes problem solving over technology.
- **Interpersonal skills and business knowledge.** The department believes that interpersonal skills and business knowledge are equally important to technical knowledge.
- **Professionalism and ethical behavior.** The department conducts its daily business and projects with honesty, integrity, and ethical behavior.
- **Collaboration and teamwork.** The department believes that collaboration, partnership, and teamwork are essential to successful learning, discovery, and engagement.
- **Risk taking to achieve improvement and expand knowledge.** The department believes that leadership and discovery requires aggressive and opportunistic experimentation with managed risk and no fear of failure.
- **Diversity of people and thought.** The department believes in the basic human dignity and potential of all people and encourages individual growth through nurturance, service, and fairness. It is dedicated to the value of diversity among individuals and the uniqueness of their ideas.

Shared Principles

- A commitment to always keep the general welfare and education of our students as the guiding principle in all that we do.
- A commitment to total quality management and continuous improvement.
- A commitment to progress and innovation through cutting-edge application of technology.
- A commitment to excellence in teaching a rigorous laboratory-based technology curriculum that provides students with state-of-the-art knowledge.
- A commitment to the development of ethical behavior and strong leadership, communication, interpersonal, critical thinking, and problem solving skills.
- A commitment to serve the technology education needs of the state of Indiana.
- A commitment to actively engage the community, business, and industry partners to assist in the integration and effective use of technology.
- A commitment to create an environment that stimulates professional excellence, life-long learning, and discovery.

Priorities for the Department of Computer and Information Technology

Four strategic priorities have been identified: focus on these strategic priorities will enable the Department of Computer and Information Technology to fulfill its mission and vision. These priorities complement the priorities and goals of the School of Technology’s strategic plan.

1. Hire and retain outstanding faculty and staff.
2. Continue the development of effective and relevant curricula that prepares graduates for initial and career-long success in areas of industry need.
3. Develop scholarship and applied research opportunities.
4. Increase fundraising and alumni development initiatives.

Goals, metrics, and targets have been identified for each of the four priorities for the department. Goals also include baseline data where appropriate.

Priority 1: Hire and retain outstanding faculty and staff

Goal 1.1: Attract and retain faculty and staff through competitive salary and benefits

Metric

- 1.1a) Benchmark comparison of salary and compensation and an amount indicated in faculty salaries

Baseline

- 1.1a)

	2003						
10 Month Faculty	CPT Headcount *	CPT Average Years in Level	CPT Average Total Years in Service	CPT Average Salary	PU Average Salary	PU Peers	CPT Peers Average Salary
Professors	3	8.7	18.3	\$93,225	\$92,584	\$95,465	\$92,385
Associate Professors	5	3.5	9.4	\$72,008	\$64,226	\$64,095	\$69,706
Assistant Professors	6	4.9	5.4	\$61,249	\$56,010	\$56,849	\$60,012

**Does not include faculty with shared FTE with other PU units*

Target

- 1.1a) CPT average salary greater than the average of peer institutions.

Goal 1.2: Faculty and staff representation of the diversity of our society

Metric

1.2a) Diversity statistics of faculty and staff compared to Indiana population

Baseline

1.2a)

			2002	2003	2004
			CPT	CPT	CPT
			Headcount	Headcount	Headcount
Tenured/Tenure Track	Men	White and Other	12	11	13
		Hispanic	1	1	1
	Women	White and Other	2	1	3*
		Asian	1	1	1

** includes Melissa Dark and Kari Clase*

Target

1.2a) Increase under-represented faculty 5 % by year 2005-2006

Goal 1.3: Enhance learning, discovery, and engagement through an increasing number of faculty

Metric

1.3a) Number of faculty

Baseline and Targets

1.3a)

Tenure Track Faculty	2003-2004 (Baseline)	2004-2005	2005-2006	2006-2007
Total	14.6* *M. Dark 50% * J. Whitten 10%	16.6 *M. Dark 50% * J. Whitten 10%	18.6	20.6

Priority 2: Continue the development of effective and relevant curricula that prepares graduates for initial and career-long success in areas of industry need

Goal 2.1: Prepare graduates for initial and career-long success in areas of industrial need

Metric

2.1a) Accreditation

Baseline

2.1a) 2003-2004

Department of Computer and Information Technology is not accredited – SIGITE is targeted accrediting body. SIGITE is in the process of finalizing its accreditation program.

Target

2.1a) 2006-2007

Department of Computer and Information Technology will be accredited or undergo self-study equivalent to the accreditation process of SIGITE

Goal 2.2: Establish B.S. degrees at all four CPT statewide locations

Metric

2.2a) Number of current CPT statewide locations offering CPT B.S. degree

Baseline

2.2a) CPT at Columbus currently offers the B.S. degree.

Kokomo, South Bend, and Anderson CPT locations do not currently offer a B.S. degree in CPT.

Target

2.2a) 2007

All four Department of Computer and Information Technology statewide locations will offer a B.S. Degree

Goal 2.3: Establish CPT Graduate Program

Metric

2.2a) Graduate Program managed through CPT at WL

Baseline

2.2a) All SOT Graduate Programs are managed under the SOT Graduate Office umbrella

Target

2.2a) 2006

Department of Computer and Information Technology will offer its own Graduate Degree Program

Priority 3: Develop scholarship and applied research opportunities

Goal 3.1: Enhance faculty performance in learning, engagement, and discovery

Metric

- 3.1a) Number of publications, presentations, textbooks, etc. to disseminate results of learning, engagement, and discovery
- 3.1b) Dollar amount of sponsored projects

Baselines

3.1a) Scholarship

Tenure Track Faculty	2002-2003	2003-2004
Reviewed textbooks	16	14
Locally published textbooks	0	0
Refereed journal articles	3	10
Refereed conference proceedings	16	16
Reviewed conference proceedings	4	12
Invited papers	0	1
Published abstracts in refereed journals	0	0
Published abstracts in conference proceedings	0	3
Published reviews	0	0
Professional presentation without proceedings	0	4
Other scholarly publications	0	5
Editor	0	4
Reviewer	0	17
TOTAL	39	86

3.1b) Dollar amount of sponsored projects by Department of Computer and Information Technology

Awards by Year					
1998-99	1999-00	2000-01	2001-02	2002-03	2003-04
0	150,000	58,708	0	\$17,957	\$114,792

Targets

3.1a) Increase published works proportionate to the increase in the number of faculty

Published Works By Year			
2003-2004	2004-2005	2005-2006	2006-2007
14.6 FTE and 86 publications	13.6% change	12% change	10% change

3.1b) Increase dollar amount of sponsored projects

Year			
2003-2004	2004-2005	2005-2006	2006-2007
\$200,000	\$400,000	\$600,000	\$800,000

Priority 4: Increase fundraising and alumni development initiatives

Goal 4.1: Increase the department’s fiscal resources for technology education, technology discovery, collaborative interdisciplinary engagements, and related support functions

Metric

- 4.1a) Total giving to the department (cash and gifts in-kind)
- 4.1b) Number and amount of endowments for distinguished and named professorships added per year
- 4.1c) Number and amount of endowments for scholarships added per year

Baselines and Targets

4.1a) Department giving

2004-05	2005-06	2006-07
1,100,000	1,200,000	1,300,000

4.1b) Endowments for distinguished and named professorships

2003-04	2004-05	2005-06	2006-07
0	0	0	1

4.1c) Endowments for scholarships

2003-04	2004-05	2005-06	2006-07
0	0	0	1

Goal 4.2: Increase gifting by enhancing both development and alumni relations through cultivation of alumni interests, increased communication, and engaging alumni/patrons (friends) of the school

Metric

4.2a) Participation rate of alumni giving

Baselines and Targets

4.2a) Alumni giving

Baseline	2003-04		Targets		
2002-03	Target	Actual	2004-05	2005-06	2006-07
3.7	9.0	6.27	10.0	11.0	12.0