

## College of Engineering and Computer Science Department of Computer Science & Engineering Strategic Goals

### WSU GOAL 1

Enhance our distinctive learning experience to recruit and retain a diversity of students from the region and beyond.

**Abstract:** Strengthen the focus on students' success and their future beyond the University; recruit and nurture distinguished faculty who integrate teaching, research and service; develop more student-centered faculty and staff; market the University by capitalizing on our distinctive strengths in programs, faculty, staff and facilities; and, strengthen existing and develop new programs to meet existing and emerging needs.

<b>Objective A:</b> Increase the number of competitive scholarships by 20% in the next two years to recruit top students from the region & beyond			
Strategy (in priority order)	Outcome Measure	Timeframe	Champion
<ul style="list-style-type: none"> <li>Increase marketing and telephone follow-up of top students to whom scholarships have been offered</li> </ul>	<ul style="list-style-type: none"> <li>Increase the % of students recruited to whom scholarships have been offered</li> </ul>	2 years	Dept. Student/Honors Scholarship Recog.Cmt; M. Rizki & K. Meyer
<b>Objective B:</b> Allocate resources to increase recruitment and retention of a diverse body of faculty and students			
Strategy	Outcome Measure	Timeframe	Champion
<ul style="list-style-type: none"> <li>Increase marketing efforts and support a marketing plan that would support the attractiveness of our program to our students and visits to High Schools.</li> <li>Make a distinctive effort to market women and minority faculty in collaboration with the College.</li> </ul>	<ul style="list-style-type: none"> <li>Increases in the numbers of students enrolled and their diversity</li> <li>Put increased effort in the recruitment of women and minority faculty</li> </ul>	3 years  3 years	R. Taylor K. Meyer  Dept. Search Committee

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<b>Objective C:</b> Impose stricter admission standards			
Strategy	Outcome Measure	Timeframe	Champion
<ul style="list-style-type: none"> <li>Strictly enforce existing rules on admission to the College (Department) and enforce mandatory advising review for those who are below marginal GPA.</li> </ul>	Reduction in the number of below 2.0 GPA students during repeated quarters.	1 year	Dept Chair, U-grad Advisors
<b>Objective D:</b> Establish relationships with local universities that do not have a graduate program for recruitment of students			
Strategy	Outcome Measure	Timeframe	Champion
<ul style="list-style-type: none"> <li>In addition to improved national marketing for graduate recruitment provide a professional visitation and lecturer program to other Ohio Universities without doctoral programs in CS or CE (Examples: Central State University, University of Toledo, Bowling Green State University, Ohio University, Youngstown State University, University of Akron, Ohio Northern University, Miami University at Oxford, Oberlin College, Wilberforce University, University of Dayton).</li> </ul>	<ul style="list-style-type: none"> <li>Number of students from Ohio enrolled in the Computer Science &amp; Engineering Graduate programs</li> </ul>	2 years	Dept Chair; Dept Grad Admissions & Graduate Committee

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### WSU GOAL 2

Expand our partnerships through external funding and collaborative scholarship both regionally and globally.

**Abstract:** In order for WSU to increase the quality and quantity of research/scholarship, it will require partnership among a community of scholars, where the community can be defined as regional, federal, state, business, global. The desired outcome will be enhanced national, and international visibility of WSU including increased extramural support.

#### **Objective A:**

Continue to expand the university facilities and infrastructure to support external funding and collaborative economic development efforts.

Strategy	Outcome Measure	Timeframe	Champion
<ul style="list-style-type: none"> <li>ITRI should establish goals of external, industrial and economic development efforts and orient them towards CS&amp;E funding and collaboration.</li> </ul>	<ul style="list-style-type: none"> <li>Magnitude of funding increase, student support and collaboration from and with external sources.</li> </ul>	2 years	ITRI Director
<ul style="list-style-type: none"> <li>Participate more actively in promotion of DAGSI among our graduate students and collaboration with the OBR, ODOD, WPAFB and Greater Dayton IT Alliance</li> </ul>	<ul style="list-style-type: none"> <li>Number of externally funded graduate students</li> </ul>	2 years	Dept Chair; Dept Graduate Adm. & Grad Studies Cmts; ITRI Director

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### WSU GOAL 3

Extend our engagement with government, business and non-profits to focus on emerging areas of need.

**Abstract:** WSU will commit itself to expanding existing relationships and developing partnerships that engage more of the total university in identifying and meeting existing and emerging needs. As a citizen of the community, WSU will lend its knowledge and expertise to enrich the region and by extension become a role model for other institutions beyond the region.

<b>Objective A:</b> Create unique educational programs addressing emerging technologies in areas of critical needs			
Strategy	Outcome Measure	Timeframe	Champion
<ul style="list-style-type: none"> <li>● Continue to nurture the Bioinformatics program and its collaborative aspects with Biology and seek additional external funding sources for it</li> </ul>	<ul style="list-style-type: none"> <li>● Number of students, increase in research funding and number of faculty involved in these efforts</li> </ul>	3 years	BIRG, ITRI, Dept Chair
<ul style="list-style-type: none"> <li>● Look into new areas such as knowledge management and homeland security.</li> </ul>	<ul style="list-style-type: none"> <li>● Grants received in that area</li> </ul>	2 years	ITRI
<ul style="list-style-type: none"> <li>● Revitalize and market the Departmental Certificate programs and consider new ones.</li> </ul>	<ul style="list-style-type: none"> <li>● Number of industries participating in it</li> </ul>	1 year	Asst to Chair; Dept Chair
<ul style="list-style-type: none"> <li>● Experiment with distance education</li> </ul>	<ul style="list-style-type: none"> <li>● Number of Dist. Ed.</li> </ul>	3 years	Dept Chair R. Taylor
<b>Objective B:</b> Continue to develop ITRI and its collaborative efforts			
Strategy	Outcome Measure	Timeframe	Champion
<ul style="list-style-type: none"> <li>● Develop a multiyear plan of action for ITRI with milestones and develop goals and metrics of success for its actions</li> </ul>	<ul style="list-style-type: none"> <li>● The amount of support obtained and as measured by the established metrics and ITRI goals</li> </ul>	2 years	ITRI Director

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**Objective C:**

Increase 4-year externally funded scholarships for high quality freshman students.

Strategy	Outcome Measure	Timeframe	Champion
<ul style="list-style-type: none"><li>Seek industrial sponsors for freshmen scholars and have them interact as interns with scholarship provider</li></ul>	<ul style="list-style-type: none"><li>Number of 4-year intern scholarships obtained over time</li></ul>	2 years	Chair, U-grad Advisors, College Dev. Officer

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### DEPT GOAL 4

Establish ourselves as a leading institution in the areas of excellence in both education and research

<b>Objective A:</b> Establish Endowed Chairs in the areas of strategic need			
Strategy	Outcome Measure	Timeframe	Champion
<ul style="list-style-type: none"> <li>Seek Sources for endowment and a distinguished quality scholar for a chair in Knowledge and Information Management</li> </ul>	<ul style="list-style-type: none"> <li>Accomplishment and installation of the Endowed Chair Scholar.</li> </ul>	5 year	Dept Chair; Dean; College Dev Officer
<b>Objective B:</b> Increase the number of faculty slots by 20% in the next three years in the areas of strategic importance			
Strategy	Outcome Measure	Timeframe	Champion
<ul style="list-style-type: none"> <li>In our case, it would mean 4 new faculty slots in areas to be determined but most likely, Bioinformatics, Knowledge and Information Management, and Homeland Security.</li> </ul>	<ul style="list-style-type: none"> <li>Seek funding and personnel after areas are defined and a marketing or lobbying effort is under way for funding.</li> </ul>	3 years	Chair, Dean, Dev. Officer, VP for Research, Asst Dean for Research
<b>Objective C:</b> Increase the number of Merit Scholars in the student body.			
Strategy	Outcome Measure	Timeframe	Champion
<ul style="list-style-type: none"> <li>Aggresively recruit Merit Scholars with personal invitations to visit our campus and interviews with faculty in addition to the usual scholarships already available.</li> </ul>	<ul style="list-style-type: none"> <li>Evaluation of the “personal touch” and Marketing effort and of the number of Merit Scholars recruited and retained. In general, monitor the GPA average of graduating students at all levels.</li> </ul>	2 years	Chair; U-grad Advisors; Dept. Student (Honors Scholarship/Recog) Committee

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### DEPT GOAL 5

Actively promote national awareness of our academics, research and athletics

<b>Objective A:</b>			
Advertise faculty, students and alumni successes in appropriate media			
Strategy	Outcome Measure	Timeframe	Champion
<ul style="list-style-type: none"> <li>Proceed with marketing plan that incorporates this goal</li> </ul>	<ul style="list-style-type: none"> <li>Media clippings, references and citations made</li> </ul>	2 years	Chair, Office of Comm. & Marketing
<b>Objective B:</b>			
Allocate resources for visits and seminars by nationally recognized scholars.			
Strategy	Outcome Measure	Timeframe	Champion
<ul style="list-style-type: none"> <li>Make student attendance mandatory to Colloquia speaker presentations and similar, as part of their academic requirements to develop a sense of continuing education requirement for lifelong learning</li> </ul>	<ul style="list-style-type: none"> <li>Number of speaker X attendance</li> </ul>		Colloquium Committee; Dept Chair