

## 2006-2009 Strategic Planning and Assessment Purdue School of Engineering and Technology, IUPUI

### Vision | Mission | Core Values | Goals and Objectives

#### Vision

Our vision is to be one of the best urban schools of engineering and technology, recognized locally, nationally, and internationally for its achievements.

#### Mission

Our mission is to provide to our constituents:

- High quality, well-rounded, and relevant educational experiences that promote critical thinking, scholarly work, and effective communication
- An environment that encourages and promotes excellence in technical proficiency, leadership, scholarship, basic and applied research, creative pursuits, and lifelong learning and that provides opportunities to develop the necessary skills
- An environment that fosters respect for cultural, ethnic, racial, age, and gender diversity
- Educational programs that are regularly reviewed and assessed for continuous improvement
- Outreach and accessibility to the educational, research, and service needs of the broader community through collaboration within school and campus, and engagement with other educational institutions, businesses, government agencies, and civic and cultural organizations
- Activities that support the intellectual and economic development of business, industry, government, and community stakeholders

#### Core Values

Core Values that define, inform, and guide our decisions and actions are:

##### *Academic Excellence*

Academic excellence is our first priority. We foster, recognize, and value lifelong excellence in learning, teaching, research, and scholarship.

##### *Collaboration & Partnering*

We value teamwork, collaboration, and partnership building within and across disciplines and with the community.

##### *Diversity*

We value and encourage intergenerational, multiethnic, and international diversity in our research foci, curricula, and pedagogy and in our faculty, staff, and student composition. We encourage diversity of ideas.

##### *Professionalism & Integrity*

We foster, recognize, and value high standards of professionalism and integrity. We value industrial experience in our faculty, staff, and students. We expect faculty and staff to be academic and professional role models. We support best practices in teaching, learning, research, and scholarship. We expect ethical decision making and behavior by all people and in all practices associated with the School.

##### *Respect/Collegiality/Civility*

We respect and value the unique abilities, perspectives, and contribution of every person in the School's community. We respect each other as individuals. We respect every person's right and responsibility to carry his/her share of the load.

##### *Responsiveness & Service*

We are committed to service and volunteerism both within and outside our School and to meeting the needs of our constituents. We encourage feedback from our constituencies and work to adjust our efforts to meet their needs. We are committed to changing our teaching programs and research initiatives to respond to our constituents' stated and anticipated needs.

##### *Leadership & Continuous Improvement*

We foster, recognize, and value effective leadership at every level in the School. We are committed to being a leader in the disciplines of engineering and technology. We seek to assess and regularly refine our programs and administrative processes.

##### *IUPUI Identity*

We value the unique opportunities associated with being part of one of the nation's best urban universities, and we appreciate the value of the Purdue name in our degrees. With a wide range of degree programs, IUPUI is Indiana's most comprehensive academic institution and is one of the leading research institutions in the State.

#### Goals and Objectives

1. Excellence in Teaching and Learning

1. Attract more students, including better prepared students and a more diverse population to the school
  1. Increase involvement in Project Lead the Way and similar programs.
    - Champion: Terri Talbert-Hatch and Charles Feldhaus
  2. Continue to improve our process for recruiting students from K-12.
    - Champion: Terri Talbert-Hatch
  3. Increase the number of scholarships for underrepresented students.
    - Champion: Terri Talbert-Hatch
    - Team member: Paula Jenkins and Sam White
  4. Increase the number of merit-based scholarships and funding per scholarship.
    - Champion: Terri Talbert-Hatch
    - Team member: Paula Jenkins
  5. Increase the number of highly qualified traditional students who are directly admitted to the school.
    - Champion: Terri Talbert-Hatch
  6. Expand articulation agreements with other institutions to increase the number of qualified transfer students.
    - Champion: Bill Conrad
    - Team members: Charles Feldhaus and Tim Diemer
  7. Enhance the quality of all programs, as measured by accrediting agencies, in comparison with peer institutions, and to meet the needs of industry.
    - Champion: Bill Conrad and Andrew Hsu
    - Team members: Department Chairs and Program Directors
  8. Increase marketing efforts for academic programs.
    - Champion: Terri Talbert-Hatch
    - Team members: Bill Conrad and Department Chairs
  9. Continue to improve the school's process for maintaining contact with prospective students upon first contact.
    - Champion: Terri Talbert-Hatch
  10. Increase the number of classes offered via nontraditional delivery methods.
    - Champions: Ken Reid and Barbara Christe
    - Team members: Ed Sullivan, Wanda Worley, Department Chairs, and Directors
  11. Increase the number of certificate and degree programs offered by nontraditional delivery methods.
    - Champions: Ed Sullivan, Ken Reid, and Barbara Christe
    - Team members: Department Chairs and Directors
  12. Continue to develop new academic initiatives appropriate to Central Indiana and beyond.
    - Champions: Bill Conrad and Andrew Hsu
    - Team members: Department Chairs and Directors
2. Support and enhance effective teaching.
  1. Continue to evaluate and implement teaching and administrative loads based on expectations for teaching, research, and service.
    - Champion: H. Oner Yurtseven
    - Team members: Department Chairs and Directors
  2. Increase the use of OnCourse and technology in the teaching and learning process.
    - Champion: Bill Lin
    - Team members: Department Chairs and Directors
  3. Increase support on the use of technology in the teaching and learning process.
    - Champion: H. Oner Yurtseven
    - Team members: Department Chairs and Directors
  4. Increase support for faculty and staff in course preparation,
    - Champion: H. Oner Yurtseven
    - Team members: Department Chairs and Directors
  5. Increase participation from each department in programs such those conducted by the Office of Professional Development that emphasize teaching excellence.
    - Champion: H. Oner Yurtseven
    - Team Members: Department Chairs and Directors
  6. Increase the recognition of effective teaching.
    - Champion: H. Oner Yurtseven
    - Team Members: Department Chairs and Directors
  7. Develop a uniform school-wide orientation, training and mentoring program for junior faculty with an emphasis on teaching excellence.
    - Champion: H. Oner Yurtseven
    - Team Members: Unit Board for Promotion and Tenure
  8. Develop a uniform school-wide orientation, training and mentoring program for part-time faculty with an emphasis on effective teaching.

- Champion: Bill Conrad
- Team members: Department Chairs and Directors
- 9. Maintain life-cycle plan for computer hardware and software.
  - Champions: Bill Lin and Pat Fox
- 10. Increase the number of faculty and staff who attend engineering and technology education conferences and workshops.
  - Champion: H. Oner Yurtseven
  - Team Members: Department Chairs and Directors
- 11. Increase the number of faculty and staff who participate in the scholarship of teaching and learning.
  - Champion: H. Oner Yurtseven
  - Team members: : Department Chairs and Directors
- 12. Develop a program of faculty conversations on good teaching in the school and in departments.
  - Champion: H. Oner Yurtseven
  - Team members: Department Chairs and Directors
- 3. Enhance undergraduate student learning and success.
  1. Continue to improve student advising practices.
    - Champion: Bill Conrad
    - Team members: Department Chairs and Directors
  2. Develop additional technology-based advising tools to assist students in monitoring degree progress.
    - Champion: Ken Rennels
    - Team members: Department Chairs and Directors
  3. Ensure that all programs provide relevant and coordinated course offerings.
    - Champion: Bill Conrad
    - Team members: Department Chairs and Directors
  4. Increase the number of undergraduate student involvement in internship, co-op, and research experiences.
    - Champion: Terri Talbert-Hatch
  5. Increase the amount of space for studying, meeting with other students, and working on team projects
    - Champion: Pat Fox and Gail Shiel
  6. Maintain ABET and other accreditation such as CIDA in applicable programs.
    - Champion: Bill Conrad
    - Team members: Department Chairs and Directors, and Sam White
  7. Increase tutoring availability.
    - Champion: H. Oner Yurtseven
    - Team members: Department Chairs and Directors
  8. Expand career planning and placement services for students.
    - Champion: Terri Talbert-Hatch
  9. Improve student laboratory and classroom experiences.
    - Champion: Bill Conrad
    - Team members: Department Chairs and Directors
  10. Improve student retention and graduation rates.
    - Champion: Bill Conrad
    - Team members: Department Chairs and Directors
  11. Continue benchmarking with peer universities and use the information in planning.
    - Champion: Bill Conrad
    - Team members: Department Chairs and Directors
  12. Develop a formal honors degree program.
    - Champion: Bill Conrad and Charles Feldhaus
    - Team members: Department Chairs and Directors
  13. Develop a student development program that enhances student persistence and graduation in areas such as goal setting, motivation, student learning, and study skills.
    - Champion: Bill Conrad
    - Team members: Department Chairs and Directors
  14. Increase student participation in professional societies and clubs.
    - Champion: Bill Conrad
    - Team members: Department Chairs and Directors
  15. Expand the use of awards and scholarships for continuing students to encourage them to excel.
    - Champion: Terri-Talbert Hatch and Paula Jenkins
    - Team members: Department Chairs and Directors
- 4. Provide effective support for graduate students and post-doctoral fellows.
  1. Increase financial support for graduate students through fellowships and assistantships, etc.
    - Champion: Andrew Hsu
    - Team Members: Department Chairs and Directors
  2. Increase the support for grantsmanship to improve financial support for graduate students and post-doctoral fellows.

- Champion: Andrew Hsu
  - Team members: Department Chairs and Directors
3. Increase space and fiscal allocations for graduate degree programs.
    - Champion: Andrew Hsu
    - Team Members: Department Chairs and Directors
  4. Increase marketing efforts locally and internationally to attract highly qualified students.
    - Champions: Terri Talbert-Hatch and Andrew Hsu
    - Team Members: Department Chairs and Directors
  5. Grow the Ph.D. programs and improve the quality of graduate programs
    - Champion: Andrew Hsu
    - Team members: Department Chairs and Appropriate Directors
  6. Increase the number of graduate courses offered.
    - Champions: Andrew Hsu
    - Team members: Department Chairs and Directors
  7. Continue to develop new academic initiatives appropriate to Central Indiana
    - Champion: Bill Conrad and Andrew Hsu
    - Team members: Department Chairs and Program Directors
  8. Provide resources for graduate students to attend national research conferences
    - Champion: Andrew Hsu
    - Team Members: Department Chairs and Directors
2. Excellence in Research, Scholarship, and Creative Activity
1. Conduct world-class research as evidenced through scholarly and creative activities.
    1. Develop and/or maintain department-level research plans
      - Champion: Andrew Hsu
      - Team members: Department Chairs and Directors
    2. Increase funded research with grants or contracts from government agencies, industry, foundations, and/or other organizations.
      - Champion: Andrew Hsu
      - Team members: Department Chairs and Directors
    3. Attract and retain world-class faculty and staff capable of research, scholarship, and creative activity.
      - Champion: Andrew Hsu
      - Team members: Department Chairs and Directors
  2. Provide resources and support for faculty and staff development to increase scholarly activity and external funding.
    1. Provide support to attend research-related professional development activities.
      - Champion: Andrew Hsu
      - Team members: Department Chairs and Directors
    2. Provide mentorship to junior faculty members
      - Champion: Andrew Hsu
      - Team members: Department Chairs and Directors
    3. Provide training for faculty on better proposal writing, etc
      - Champion: Andrew Hsu
      - Team members: Department Chairs and Directors
    4. Provide seed funding for research initiation and proposal generation.
      - Champion: Andrew Hsu
      - Team members: Department Chairs and Directors
    5. Adjust teaching and administrative loads based on the expectations for teaching, research, and service to improve research productivities
      - Champion: H. Oner Yurtseven
      - Team Members: Department Chairs and Directors
  3. Enhance infrastructure for scholarly activity.
    1. Increase and/or reallocate physical space to improve research environment
      - Champions: Andrew Hsu and Patricia Fox
      - Team members: Department Chairs and Directors
    2. Continue to enhance research-related resource sharing among departments, schools, and campuses.
      - Champion: Andrew Hsu
      - Team members: Department Chairs and Directors
    3. Increase intellectual property generation and technology transfer through IURTC and other research incubators.
      - Champion: Andrew Hsu
      - Team members: Department Chairs and Directors
    4. Develop and/or maintain local and national industry relationships and establish long term partnerships
      - Champion: Andrew Hsu
      - Team members: Department Chairs and Directors
    5. Provide resources to increase participation in Undergraduate Research

Programs

- Champion: Andrew Hsu
- Team members: Department Chairs and Directors

3. Excellence in External Engagement, Locally, Nationally, and Globally  
The Purdue School of Engineering and Technology, IUPUI is a Purdue School and program operating within an Indiana University system. As such, there are unique challenges and opportunities relative to whom we are and where exactly the School fits in such a structure.
  1. Enhance capacity for engagement.
    1. Review promotion and tenure documents to reflect renewed emphasis on civic engagement (e.g. definitions; measurement).
      - Champion: H. Öner Yurtseven
      - Team Members: Unit Board for Promotion and Tenure
    2. Promote school-wide sense of responsibility and awareness of civic engagement.
      - Champions: Paula Jenkins
      - Team Members: Department Chairs and Program Directors
    3. Increase service-learning opportunities for students.
      - Champion: Bill Conrad
      - Team Members: Department Chairs and Directors
    4. Increase international outreach efforts.
      - Champion: Tim Diemer
      - Team Members: Department Chairs and Program Directors
  2. Increase engagement activities, partnerships, and services.
    1. Continue to increase quality and effectiveness relative to advisory boards for each department.
      - Champion: Paula Jenkins
      - Team Members: Department Chairs and Directors
    2. Increase interaction with local high schools (e.g. student outreach; teacher training).
      - Champions: Terri Talbert-Hatch and Charles Feldhaus
      - Team Members: Department Chairs and Directors.
    3. Increase initiatives and interaction for specific target populations
      - Champions: Sam White and Patrick Gee
      - Team Members: Department Chairs and Directors
    4. Increase undergraduate student involvement in internship and co-op experiences.
      - Champions: Terri Talbert-Hatch, Josh Killey and all external advisory boards
      - Team Members: Department Chairs and Directors.
    5. Develop appropriate mechanisms for external requests related to civic engagement to be aligned with School resources and assets.
      - Champion: Paula Jenkins
      - Team Members: Department Chairs and Directors
    6. Expand industry partnerships relative to student employment opportunities such as scope and breadth of career fairs, selection as preferred recruitment partner.
      - Champion: Terri Talbert-Hatch, Josh Killey and all external advisory boards
      - Team Members: Department Chairs and Directors.
  3. Contribute to economic, cultural and civic development of Indianapolis, Central Indiana and the State.
    1. Develop a listing of faculty and staff expertise, as well as industry expertise database that is functional and accessible via web delivery.
      - Champions: Andrew Hsu and Paula Jenkins
      - Team Members: Department Chairs, Faculty and CNC
    2. Support other campus initiatives for civic engagement (e.g. partnerships with other units; contributions to campus-level Civic Engagement Inventory).
      - Champion: Paula Jenkins
    3. Increase involvement in area economic development activities and research parks.
      - Champion: Andrew Hsu and DIAC
      - Team Members: Department Chairs and Directors
    4. Develop better ways of identifying new markets and providing unmet needs.
      - Champions: Andrew Hsu, Terri Talbert-Hatch and DIAC
      - Team Members: Department Chairs and Directors.
    5. Develop outreach efforts for specialized populations (e.g. adults with some college but no degree).
      - Champion: Terri Talbert-Hatch
      - Team Members: Ivy Tech, Vincennes and IUPUC