



COLLEGE OF APPLIED
SCIENCE AND TECHNOLOGY
Illinois State University

FY18 ANNUAL REPORT AND FY19 PLANNING REPORT

STATE

YOUR FUTURE.

WHO WE ARE

- Eight Academic Units
 - Agriculture
 - Criminal Justice Sciences
 - Family and Consumer Sciences
 - Health Sciences
 - Information Technology
 - Kinesiology and Recreation
 - Military Science
 - Technology
- Five Affiliate Units
 - Gamma Phi Circus
 - University Farm at Lexington
 - Horticulture Center
 - Child Care Center
 - Sports Medicine and Rehabilitation Therapy Clinic

COLLEGE TEAM

Todd McLoda – Dean

Kevin Laudner – Associate Dean

Kara Snyder – Assistant Dean

Lori Fox – Administrative Aide

Cindy Greskiwcz – Office Manager

Kate Jacobs – Director of Development

Marcus Alouan – Director of Gamma Phi Circus

Deb Wylie – Administrative Aide to Gamma Phi Circus

Chandra Smith, Chris Andre, & Jim Hearn – IT Support Services

COLLEGE TEAM

Rob Rhykerd – Chair of AGR

Brent Teasdale – Chair of CJS

Ani Yazedjian – Chair of FCS

Jeff Clark – Chair of HSC

Mary Elaine Califf – Director of IT

Dan Elkins – Director of KNR

LTC John Cross – Chair of MSC

Ted Branoff – Chair of TEC

VISION AND MISSION

Vision

The College of Applied Science and Technology graduates individuals **skilled in critical thinking** with a **life-long passion for learning** and a strong commitment to **civic engagement**.

Mission

The College of Applied Science and Technology cultivates the **intellectual and personal growth** of individuals through **premier teaching, research, and outreach** programs. We emphasize **innovative relationships between theory and practice** in order to graduate **technologically skilled life-long learners** who can contribute effectively to their profession and society.

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STRATEGIC PLANNING

1. Data collection
2. Small working groups centered on the areas of Students, Faculty/Staff, External Constituents, and Culture
3. Formulation of draft goals and actions
4. Feedback
5. Refinement of plan
6. Presentation of plan
7. Final approval

Goal 1

FY18 REPORT

- CAST provides premier comprehensive undergraduate programs.
 - Dr. Brent Teasdale (pictured) was recognized in the Journal of Criminal Justice Education among the top ten Criminologists at midcareer



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Goal 1

FY18 REPORT



- CAST provides premier comprehensive undergraduate programs.
 - John Muetting (pictured), a senior in construction management, was named a Bone Scholar
 - The newly established cybersecurity program has exceeded enrollment projections in its first year and we are working to secure needed laboratory and classroom space with the assistance of a gift from State Farm.

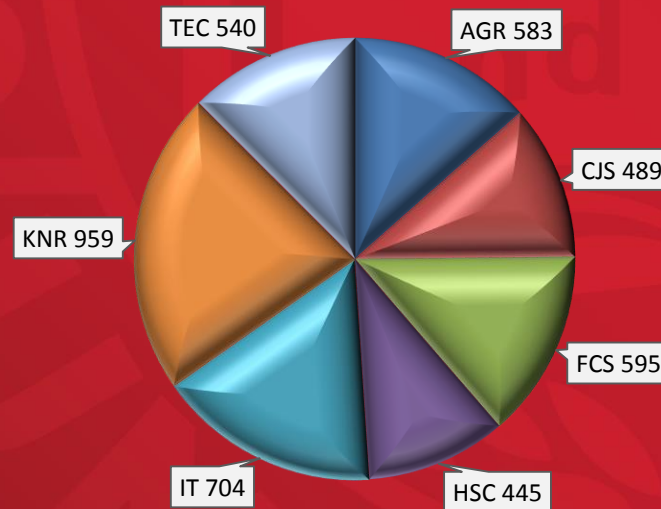
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Goal 1

FY18 REPORT

- Undergraduate enrollment (4,315) was down slightly (31 students) this year. We believe the downturn was for only one year. Overall, undergraduate enrollment is up 15% over the past 5 years.

Fall 2017 Undergraduate Enrollment by Unit



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Goal 2

FY18 REPORT

- CAST provides graduate education programs that have a state, national, and international reputation for excellence.
 - FCS began offering Accelerated Master's degrees permitting students to take graduate coursework during the senior year to reduce the time to complete a Bachelor's and Master's degree by a full year.

Goal 2

FY18 REPORT

- Graduate students from KNR assist clients referred from Student Counseling and/or Student Health Services who are in need of assistance learning about how to be active or have self-imposed issues that impede physical activity.
 - This is a collaborative effort among Exercise Physiology and the Psychology of Sport and Physical Activity faculty and is providing unique educational opportunities for our graduate students.



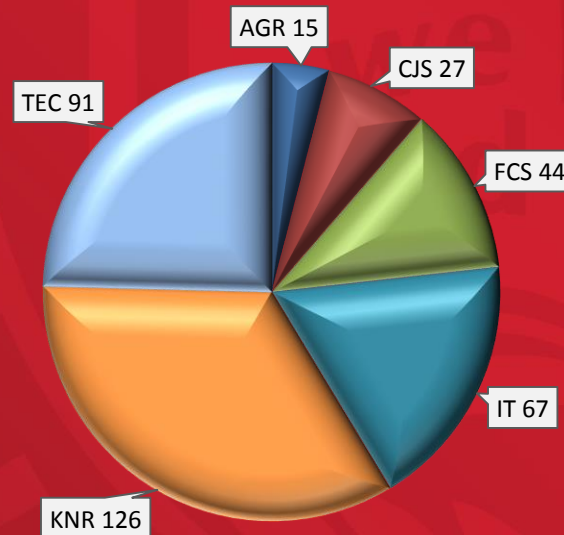
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Goal 2

FY18 REPORT

- Graduate student enrollment (370) is up slightly from last year (4 students) and is up 2.4% over the past 5 years.

Fall 2017 Graduate Enrollment by Unit



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Goal 3

FY18 REPORT

- CAST maintains state, national, and international recognition for quality research and scholarship.
 - Jenn Barnes (FCS) – presenting in April at the National Kidney Foundation Spring Clinical Meeting on “*Gastrointestinal microbiota in patients with chronic kidney disease*”.

Goal 3

FY18 REPORT

- Justin Rickard (AGR) had several publications that investigated the effects of various chemicals on the growth performance of pigs
- Shelly Clevenger (CJS) is investigating the experiences of LGBTQ sexual assault survivors within the criminal justice system
- Justin Stanek (KNR) published an article about how *“Active duty firefighters can improve functional movement screen scores following an 8 week individualized client workout program”*.

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Goal 3

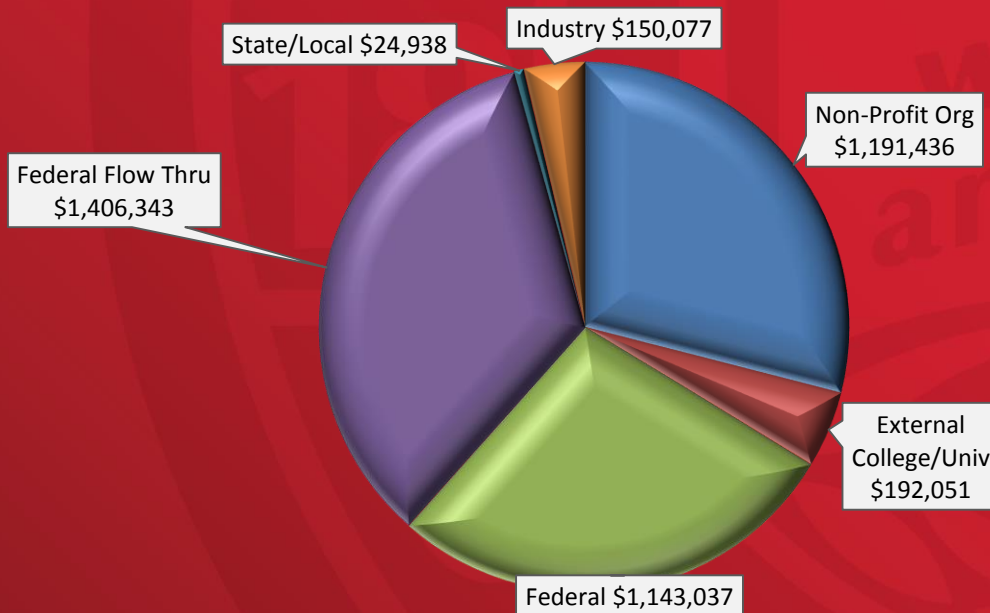
FY18 REPORT

- LC Yang (HSC) had several publications this year that investigated ways of using anaerobic digestion to manage waste and produce bioenergy
- Xing Fang (IT) published in the Journal of Big Data on “*Understanding deep learning via backtracking and deconvolution*”.
- Jin Jo and Matt Aldeman (TEC) published article on the “*Optimum penetration of regional utility scale renewable energy systems*”.

Goal 3

FY18 REPORT

- Faculty submitted 63.6 extramural funding proposals totaling \$4,107,882. In total, 50.3 proposals were funded for \$1,964,294.



**CAST Proposal Submissions
by Funding Source**

Goal 4

FY18 REPORT

- CAST provides outreach initiatives that enhance the public and private sectors.
 - The garden collections at the Horticulture Center were visited by approximately 3,000 guests at events throughout the year.
 - MSC's "*Cadets Helping Kids*" is a mentorship program that involves our cadets working with local elementary school children as tutors and role models.

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Goal 4

FY18 REPORT

- FCS continued the *Fresh FAVS* program which includes participation by the Department, Wellness, Event Management, and Campus Dining. The program provides reasonably priced fresh fruits and vegetables to subscribers on campus. The program was developed by an FCS graduate student.
- Also in FCS, the award-winning *Fix-It Friday* initiative continued under the direction of Elisabeth Reed. Students set up a table either on campus or in the community to mend articles of clothing for free rather than see the items tossed in a landfill.

Goal 5

FY18 REPORT

- CAST provides state-of-the-art technology and infrastructure that is sensitive to a healthy, safe, and environmentally sustainable campus.
 - After several years of rapid growth in agriculture, we were able to secure the Hudelson Building located next to the Ropp Agriculture Building to provide additional classroom space, seminar rooms, and faculty offices.

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Goal 5

FY18 REPORT

- FCS used significant local and College funds to upgrade equipment and facilities for the Textiles Lab, the Interior Design Lab, the Sewing Design Studio, the Human Development and Family Science program, and the Foods Lab.
- HSC used local and College funds to update the computer lab for HIM, the Educational Media Lab, the EH Lab, and the MLS Labs.
- IT opened a Mac computer lab.

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Goal 5

FY18 REPORT

- IT purchased 3 servers in support of virtual networks for instruction and research.
- TEC used local funds to upgrade equipment in for all six of their majors.
- Significant renovations were completed at the ISU Farm to enhance student learning and practical experiences.

Goal 6

FY18 REPORT



- CAST attracts, develops, and maintains meaningful relationships with internal and external constituencies.
 - CAST hosts Science and Technology Week annually, providing a variety of events that pertain to both internal and external constituencies (students, faculty, staff, alumni, donors, and community members).
 - Gamma Phi Circus is collaborating with “Circus Fans of America” to host its annual event this spring in Normal.



Goal 6

FY18 REPORT

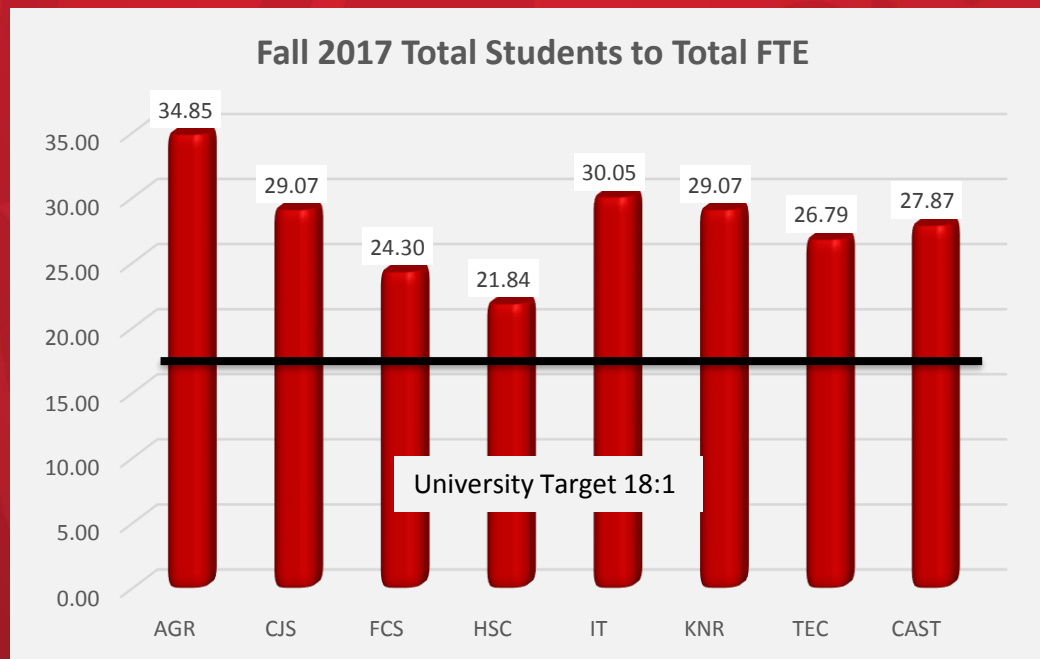
- CAST inducted 8 new members to our Hall of Fame and will soon induct 6 new members to our Academy of Achievement, recognizing significant contributions to the discipline of the CAST alumnus within 20 years of graduation.
- As part of our data collection process for the next strategic plan for CAST, we reached out to alumni advisory boards and College alumni for input and we had a 35% response rate that has provided great insight for our emerging plan.

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Productivity
Measures

FY18 REPORT

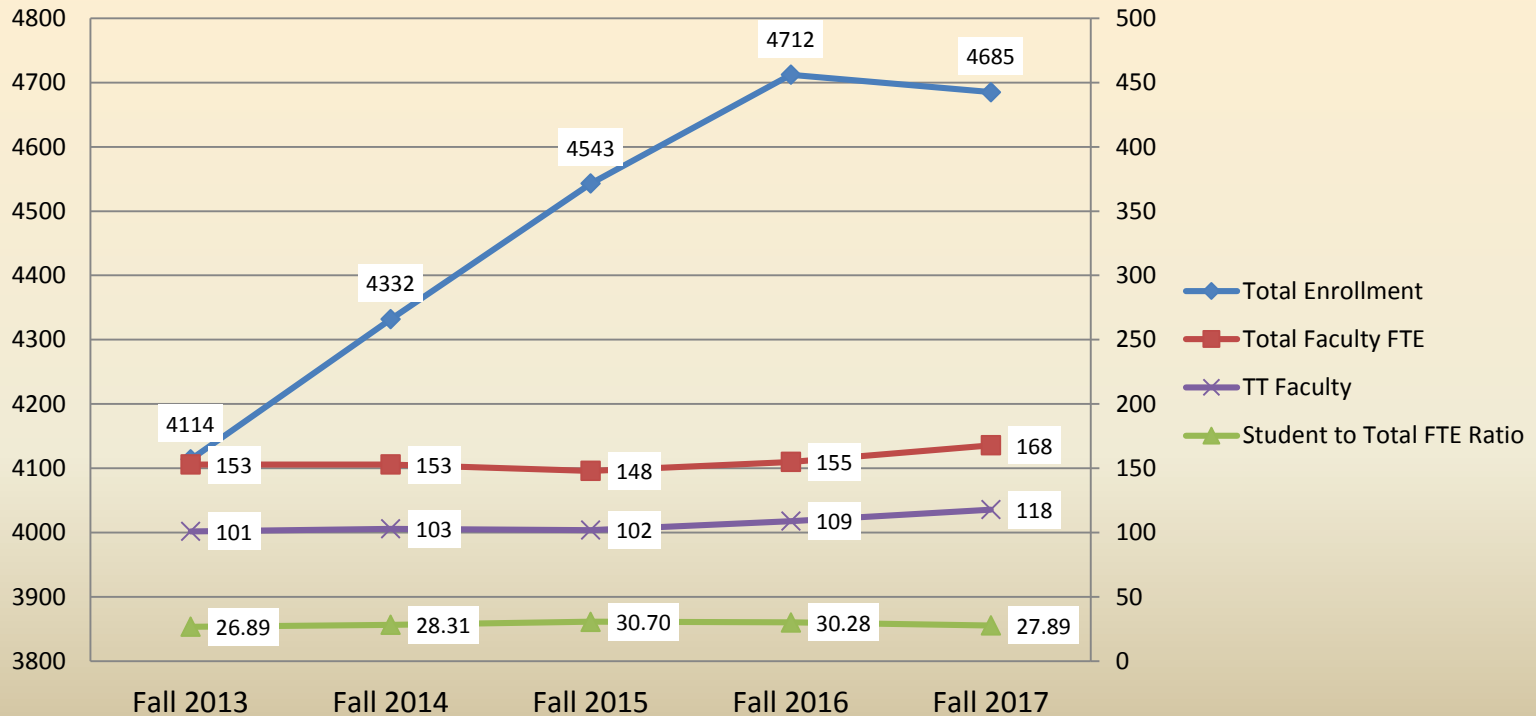
- The total student to FTE ratio for the College remains above the University target although the ratios are decreasing.



Productivity
Measures

FY18 REPORT

CAST FTE, Enrollment, and Student to FTE Ratios



Productivity
Measures

FY18 REPORT

- CAST faculty members published 196 peer-reviewed outcomes (manuscripts, books, book chapters, proceedings, etc.) and made 187 peer-reviewed and invited presentations.
- This is an average of 2.3 refereed outcomes per FTE.
- Since nearly all professional outcomes are generated by TT faculty (n=118), the adjusted productivity is 3.2 refereed outcomes per TT faculty member.

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Productivity
Measures

FY18 REPORT

- Faculty generated 91,461 credit hours.
- TT generated an average of 480 (compared to the University average of 395) and NTT generated an average of 706 (compared to the University average of 677).

Productivity
Measures

FY18 REPORT

- Fundraising – as of March 5th (68% through the year), CAST has achieved 87% of our annual fundraising goal.
- Similarly, we are at 72% of our Campaign goal of \$14,000,000.

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Productivity
Measures

FY18 REPORT

- Enrollment Rebound Incentive Program
 - All CAST units benefitted from the 4-year ERIP
 - CAST grew by 13.8% (net 571 students)
 - CAST added 17 TT faculty members
 - CAST units averaged \$27K in FY15, \$36K in FY16, \$41K in FY17, and \$43K in FY18
 - These were critical dollars to supplement operations budgets and instructional needs.

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FY18 REPORT

- Internal Reallocations and Reorganizations
 - In AGR, an additional .5 FTE academic advisor position was created in response to rapid enrollment growth.
 - New Department Chairperson in Criminal Justice Sciences.
 - New Academic Advisor in Family and Consumer Sciences.

FY18 REPORT

- Internal Reallocations and Reorganizations
 - In FCS, an additional .5 FTE academic advisor position was created in response to rapid enrollment growth.
 - New Graduate Coordinator in Information Technology.
 - New Chief Clerk in Information Technology.
 - New IT Director hired in CAST.

Major
Objectives

FY19 PLANNING

- For Goal 1, premier comprehensive undergraduate programs
 - Continue to work closely with University Admissions in actively recruiting and retaining students in CAST.
 - Strategically revise existing curricula at the undergraduate level and consider proposals for new programs (B.S. in Mechanical Engineering) with input from faculty, advisory boards, corporate partners, and accrediting agencies.
 - Maintain a standard of excellence through national program recognition and accreditation where appropriate.

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Major
Objectives

FY19 PLANNING

- For Goal 1, premier comprehensive undergraduate programs
 - Continue support of the Washington, D.C Internship program and encourage participation by all academic units.
 - Conduct successful faculty searches as approved for FY19.
 - We look forward to our participation in INTO and we will promote diverse and inclusive educational opportunities as a means of broadening life experience and fostering mutual cross-cultural understanding for students and faculty.

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Major
Objectives

FY19 PLANNING

- For Goal 1, premier comprehensive undergraduate programs
 - Seek opportunities for development of student and faculty exchange programs with international universities and ensure inclusion of all CAST units.
 - Implement temporary computer laboratories for the growing cybersecurity major (need two 30-seat computer labs).
 - Break ground on a dedicated laboratory space for the cybersecurity major.
 - Develop new undergraduate sequence in exercise science for pre-professional students.

Major
Objectives

FY19 PLANNING

- For Goal 2, excellent graduate programs
 - Strategically revise existing curricula at the graduate level and consider proposals for new programs (M.S. in Computer Science; Master's of Public Health; Master's of Athletic Training) with input from faculty, advisory boards, and accrediting agencies.
 - Increase graduate student enrollment in the biomechanics, recreation administration, exercise physiology, and physical education pedagogy sequences.
 - Seek an increase to the number of graduate assistantships and the average award of stipends as resources permit.

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Major
Objectives

FY19 PLANNING

- For Goal 3, quality research and scholarship
 - Promote interdisciplinary and inter-departmental research projects where appropriate.
 - Increase the scholarly output of tenure-track faculty members including peer-reviewed articles, book chapters, books, abstracts, and proceedings to average 3.5 outcomes per FTE.
 - Seek opportunities to unite the needs of corporate partners with available faculty research expertise.

Major
Objectives

FY19 PLANNING

- For Goal 3, quality research and scholarship
 - Increase grant submissions to state and federal agencies, private foundations, and corporate partners.
 - Continue development of a research center in CJS.

Major
Objectives

FY19 PLANNING

- For Goal 4, outreach initiatives
 - Support Science and Technology Week.
 - **Explore expansion of outreach activities that integrates and supports teaching and scholarship.**
 - Support efforts to host influential guest speakers and professional development opportunities for the benefit of students, faculty, and the community.
 - **Support activities of CAST students and RSOs geared toward service learning and civic engagement opportunities.**

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Major
Objectives

FY19 PLANNING

- For Goal 5, technology and infrastructure
 - Renovate the Interior Design Studio space.
 - Develop a plan to address office space and laboratory space constraints in departments and schools that are at or near full capacity.
 - Provide faculty and students access to open-source Micro CNC Mill to enable the making of circuit boards. These machines have played a crucial role in the development of the new Renewable Energy Lab by creating custom electronic housings and electrical circuit boards for the new Solar PV Lab Stations.
 - Expand our use of application virtualization with the intent of increasing availability of software to students and faculty both on and off campus.
 - Develop additional collaborative learning spaces within the College.

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Major
Objectives

FY19 PLANNING

- For Goal 6, meaningful relationships
 - Complete the revision of the CAST Strategic Plan (2018-2023) followed by departmental/school strategic plan revisions as applicable.
 - Actively engage with University Advancement in the comprehensive campaign.
 - Continue to encourage and utilize the expertise of advisory councils in the Departments and Schools.
 - Expand cultivation and stewardship activities with key alumni, internal, and external constituencies.
 - Develop a fee-for-service initiative for the biomechanics laboratory in the School of KNR.

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FY19 PLANNING

- Permanent Funding Requests (\$491,676)
 - Graduate assistantships – increased number and stipends provided
 - Operations budget increases

FY19 PLANNING

- Strategic Budget Carryover (\$414,105)
 - Summer salaries
 - Faculty travel
 - Startup packages
 - Laboratory equipment
 - Recruitment scholarships

FY19 PLANNING

- Provost Enhancements (\$350,774)
 - Facilities (\$227,654)
 - Equipment (\$123,120)

FY19 PLANNING

- Personnel Requests (2 non-reappointments)
 - 12 new TT requests
 - AGR (2)
 - CJS (0)
 - FCS (1)
 - HSC (2)
 - IT (3)
 - KNR (2)
 - TEC (2)

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