

College of Applied Science and Technology

FY20 Annual Report



College of Applied Science and Technology

Illinois State University

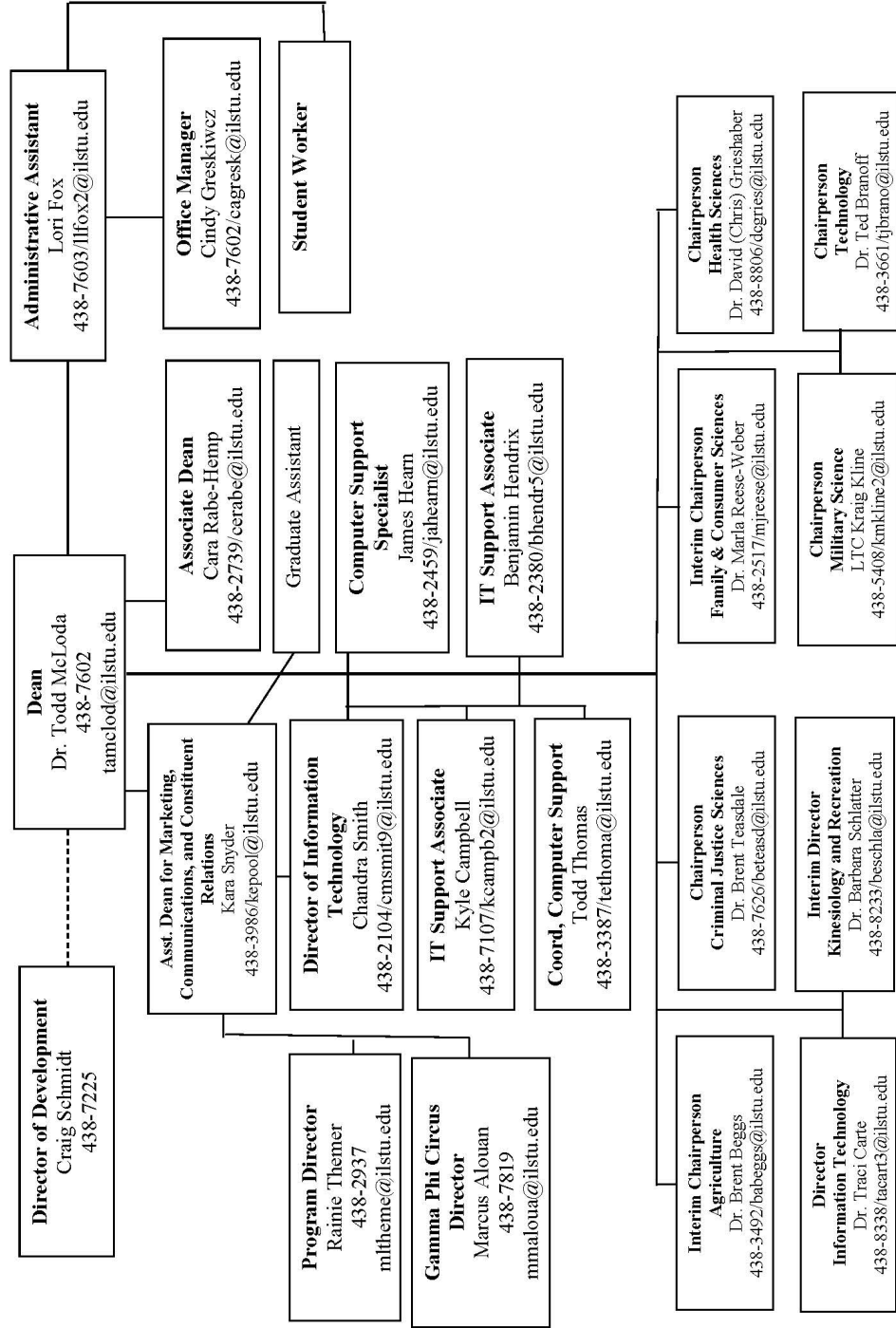
March 2020

Illinois State University
College of Applied Science and Technology (CAST)
FY20 Annual Report

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**Illinois State University
College of Applied Science and Technology
Organization Chart FY 20**



College of Applied Science and Technology

FY 20 Annual Report

I. Accomplishments and Productivity for FY20

A. CAST goals and Educate•Connect•Elevate

There is a clear line of sight between *Educate • Connect • Elevate* and the vision and mission of the College of Applied Science and Technology. In 2019, CAST introduced an updated Strategic Plan, available for download here: https://cast.illinoisstate.edu/downloads/19-8957%20CAST%20Strategic%20Plan%20ADA_final_jh.pdf

MISSION

Through applied learning, we prepare and empower students who will make lasting, positive contributions to their profession and the world. We leverage and celebrate the breadth of programs within the College of Applied Science and Technology that build upon a strong general education foundation.

VISION

CAST: Inspiring innovation, opportunity, and the discovery of knowledge through exceptional academic programs and experiential learning.

The College has established four major goals with strategies and corresponding action items FY19-23 that are directly linked and fully support the core values and goals espoused in *Educate • Connect • Elevate*.

College of Applied Science and Technology Goals

- Goal I. Integrate relevant applied learning and technologies to provide an exemplary educational experience focusing on individual goals for both undergraduate and graduate students. **(Supports *Educate • Connect • Elevate* Goals 1, 2, 3, and 4).**
- Goal II. Foster a cohesive culture of diversity, inclusion, and equity that reaches all our students, faculty, and staff. **(Supports *Educate • Connect • Elevate* Goals 2, 3 and 4)**
- Goal III. Support a workplace that facilitates and rewards faculty and staff excellence. **(Supports *Educate • Connect • Elevate* Goals 1, 2, 3 and 4)**
- Goal IV. Develop and maintain productive relationships with external constituencies. **(Supports *Educate • Connect • Elevate* Goals 1, 2 and 4)**

B. Summary of Current and Recent Accomplishments

Goal I. Integrate relevant applied learning and technologies to provide an exemplary educational experience focusing on individual goals for both undergraduate and graduate students. **(Supports Educate • Connect • Elevate Goals 1, 2, 3, and 4).**

Major Accomplishments CAST Goal I:

- CAST provided students over \$45,000 in Persistence scholarships in FY19. These one-time scholarships were awarded to academically talented students whose graduation goals were blocked by financial obstacles. By the end of FY20, CAST will have distributed over \$100,000 in student scholarships to ensure the retention of dozens of matriculating CAST students experiencing financial hardships.
- CAST continued its Washington, D.C. summer internship program giving students the opportunity to intern in Washington, D.C. for the summer.
- Departments and schools in CAST continue to recruit outstanding students to all degree programs. These recruitment efforts include community college visits, student ambassador programs, and high school career fairs.
- Students in the Department of Agriculture, competed in Livestock Judging, Ag Computers, Precision Ag, Crops Judging, and Knowledge Bowl at the North American Colleges and Teachers of Agriculture Conference.
- The Department of Criminal Justice Sciences' students and graduates published and presented research with faculty, including David Kunkel and Ryan Dugan who presented posters at the Midwest Criminal Justice Association Meeting, Brice Terpstra who coauthored an article in *Justice Quarterly* and presented at the American Society of Criminology, Emilee Green, who coauthored an article in *International Journal of Police Science & Management*, and Lillie Seggelk and Tara Thomas who coauthored an article in *Critical Issues in Justice and Politics*.
- The Family and Consumer Sciences department maintains accreditations through the American Association for Family and Consumer Sciences (AAFCS), the Council for Interior Design Association (CIDA), Accreditation Council for Education in Nutrition and Dietetics (ACEND), the National Council for Teacher Education (NCATE), and the National Association for the Education of Young Children (NAEYC), all of which guide their curriculum.
- The Department of Agriculture awarded approximately \$40,000 in scholarships to recruit and retain talented students.
- The Department of Criminal Justice Sciences launched an accelerated Master's degree.

- Frederick Adomako from the Department of Agriculture, Hannah Harris from the School of Kinesiology and Recreation, and Zakary Kaesberg from the Department of Family and Consumer Sciences advanced from the CAST Three Minute Thesis Contest to compete in the University-wide contest (2019-20).
- Over 30 Construction Management students from the Department of Technology attended the American Concrete Institute, Associate Schools of Construction, and Mechanical Contractors Association of America national/state/local meetings/events/competitions, mostly funded by industry and professional organizations.
- Isaac Brockman, an undergraduate student from the Department of Agriculture, was named an IAA Foundation Top Scholar.
- The Department of Family and Consumer Sciences has very high pass rates for their certification exams, including 100% for the EdTPA; 92% for DPD; 100% for DI and 100% for Child Life certification.
- In the School of Kinesiology and Recreation, Exercise Science major Mohammed S. Zaman, was named a Bone Scholar.
- Four Graphics Communication students from the Department of Technology competed in the Phoenix Challenge Competition and travelled to New Orleans, LA in May 2019. Student travel was partially funded by the William P. LaBounty Endowment for Graphic Communications.
- The Family and Consumer Sciences department awarded 37 students with \$40,000 in scholarships for the 2019-2020 academic year.
- Undergraduates, Kate Del Fava and Mariah Brody, from the Department of Agriculture were recognized as Bone Scholars.
- The School of Information Technology will host the 9th annual Mobile Application Development Contest, sponsored by State Farm during spring 2020.
- Students in the Department of Family and Consumer Sciences attended and presented at local, state, regional, national, and international professional conferences, including the Midwest Child Life conference, the National Council on Family Relations, the Illinois Council on Family Relations, the International Textile and Apparel Association conference, and the Illinois Association of Career and Technical Education Conference.
- In the School of Information Technology, students participated in the Department of Energy's CyberForce competition and the Midwest Collegiate Cyberdefense competition.
- Sustainable and Renewable Energy students from the Department of Technology completed a study abroad experience at the Aarhus School of Marine and Technical Engineering in Aarhus, Denmark.

- The School of Kinesiology and Recreation provided International travel opportunities for students and faculty to travel Italy, Russia, and New Zealand, as well as a cruise ship industry trip that taught students about commercial recreation, tourism, hospitality, and business in the Caribbean.
- The Department of Agriculture hosted a successful Career Day with over 50 Agriculture Companies and 200 students attending.
- The Criminal Justice Sciences department hosted a very successful Social Sciences Internship and Career fair.
- In the Fall of 2019, the Department of Family and Consumer Sciences launched a Distance Dietetic Internship certificate program with full first-year enrollment of 15 students. This Full Cost Recovery model program plans to accept 30 students in fall of 2020.
- In the Department of Technology, Technology and Engineering Education students participated in conferences and competitions associated with state, regional, and national professional organizations including International Technology and Engineering Educators Association (ITEEA), Midwest Technology and Engineering Education Collegiate Association (TEECA), and ITEEA Conference and the national TEECA competitions.
- The student section of the American Society of Safety Professionals from the Department of Health Sciences was recognized as the Outstanding Student Section Award winner from among 78 student sections around the country and world – this is the second time in three years that they have been recognized as the most outstanding student section.
- Renew My Wardrobe was created in the Family and Consumer Sciences class, Economics of Fashion, to enhance students’ engagement in promoting and participating in sustainable consumption patterns. Between spring and fall semesters, hundreds of clothing items were donated and/or swapped by students at more than a dozen events on campus.
- Graphic Communications students from the Department of Technology attended the GraphExpo conference and convention in Chicago. The program hosted four different Chicago-area companies for presentations, networking, and interviews with students.
- The Lois Jett Historic Costume Collection, housed in the Department of Family and Consumer Sciences, provides a new exhibition that is open to the public each semester. The exhibition, “The Color Experience” was featured in spring and summer of 2019 and highlighted popular colors in dress throughout the 20th century as well as current popular colors promoted through Pantone. In fall 2019 the exhibition, “Boot Camp: A Century of Military Attire” showcased military uniforms

worn by men and women from World War I to today. “Boot Camp” was also featured on the *Pantagraph’s* front page on Veterans Day in November 2019. Each exhibition was completely student-driven from concept to installation.

- The Department of Agriculture recruited students at the Farm Progress show in Decatur, IL, the Chicago High School for Agriculture Sciences, in addition to high schools, community colleges and collegiate FFA events across the state.
- The Child Care Center, in the Department of Family and Consumer Sciences, continues to earn additional Gateway credentials in order to ensure implementation of best practices for both children who attend and ISU students who utilize the Center as a learning lab.
- Most of the CAST majors require a professional practice experience to encourage theory-to-practice competency development.

FY20 CAST Professional Practice Data

Course Number	Number of Students
298	404
398	1109
498	126

Goal II. Foster a cohesive culture of diversity, inclusion, and equity that reaches all our students, faculty, and staff. (**Supports Educate • Connect • Elevate Goals 2, 3 and 4**)

Major Accomplishments CAST Goal II:

- CAST is committed to supporting Illinois State University’s shared vision for a culture of diversity, inclusion, and equity for all our students, faculty, and staff. As part of our ongoing professional development program that started in 2016, CAST continues to sponsor events that confront racism in all its forms ranging from identifying implicit biases at the personal level to challenging those institutional structures and practices that perpetuate the systematic exclusion of people of color; programming that addresses microaggressions and racism. In Fall 2019, CAST faculty and staff attended “Stereotypes, Myths, and Misconceptions: What you believe matters” to tackle implicit bias in its many forms. In Spring 2020, faculty and staff are invited to attend, “The Power of Empathy and its Impact on Diversity, Equity, and Inclusion.” This interactive session, led by Angell Howard, explores empathy through a diversity, equity, and inclusion lens. Participants learn and practice to apply three core empathy skills into their professional and personal lives.
- Dr. Miltonette Craig was inducted into the 2020 class of Emerging Scholars by *Diverse Issues in Higher Education*.

- The School of Kinesiology and Recreation’s Diversity and Inclusion Committee developed strategies and informed colleagues on providing a welcoming and inclusive environment in the school.
- The Department of Agriculture continued to globalize their curriculum through the addition of a trip to Argentina through a collaboration with the Department of Family and Consumer Sciences.
- Therapeutic recreation students and faculty member Sherri Hildebrand from the School of Kinesiology and Recreation organized a free event during Therapeutic Recreation month for the ISU community to experience how recreation can be adapted for those with disabilities at the annual Adaptapalooza held at the Student Fitness Center. Activities included wheelchair basketball, adaptive rock climbing, sitting volleyball, and goalball to highlight ways to participate in sports by building independence and social interaction.
- Dr. Aslihan Spaulding received the Living Our Values Award. The Living Our Values awards recognize individuals and groups that exemplify Illinois State’s core values of Learning and Scholarship, Diversity and Inclusion, Respect, Collaboration, Individualized Attention, Civic Engagement, and Integrity, as spelled out in Educate • Connect • Elevate.
- The Department of Family and Consumer Sciences hosted the culinary competition of the National Association for the Advancement of Colored People’s Afro-Academic, Cultural, Technological and Scientific Olympics (ACT-SO). This is a national program with chapters around the country.
- The Department of Technology hosted four visiting scholars from China during the summer of 2019.
- In the Department of Family and Consumer Sciences, one-third of the tenure track faculty have an international background exposing students to different global perspectives.
- The faculty of the School of Kinesiology and Recreation completed Safe Zone Training.

Goal III. Support a workplace that facilitates and rewards faculty and staff excellence.
(Supports Educate • Connect • Elevate Goals 1, 2 and 3)

Major Accomplishments CAST Goal III:

- Dr. Anu Gokhale of the Department of Technology was named a Distinguished Professor and also received the Chizmar-Ostrosky Scholarship of Teaching and Learning University Award.

- Dr. David Kopsell from the Department of Agriculture received the Non-land grant Agriculture and Renewable Resource Universities' Distinguished Educator Award.
- Dr. Chris Merrill from the Department of Technology received the Association for Career and Technical Education, Teacher Educator of the Year Award.
- Several Department of Criminal Justice Sciences faculty were acknowledged at the American Society of Criminology Meeting. Dr. Ralph Weisheit was awarded the Lifetime Achievement Award by the Division of Rural Criminology, Dr. Dawn Beichner was named the Inconvenient Woman of the Year by the Division of Women and Crime, and Dr. Shelly Clevenger won the American Society of Criminology's Division of Victimology's Robert Jerin Book of the year award.
- Dr. Mary Henninger from the School of Kinesiology and Recreation was the recipient of the Above and Beyond Champion of Autism award presented by Autism McLean as well as, the Founder's Award from the Heroes Embracing Autistic Lives (H.E.A.L.) Foundation due to her efforts to serve children with Autism Spectrum Disorder through the Jon's Heroes adapted physical education program.
- Dr. Joanne Savage from the Department of Criminal Justice Sciences was named the CAST Outstanding Researcher in the tenured category.
- The School of Information Technology started a research program that offers faculty \$3000 in seed money for projects with good potential for national funding and competitively funded three projects this year.
- Dr. Yun Chang from the School of Kinesiology and Recreation was recognized as the recipient of the 2019 Sandra Groves Professional Development Award in Recreation and Park Administration.
- The faculty of the Department of Criminal Justice Sciences placed in the Pathways to Excellence award from the Center for Teaching and Learning.
- Kathy Scott from the Department of Agriculture was recognized with the CAST Outstanding Civil Service Staff Award.
- Departmental of Technology awards were given to Drs. Aldeman, Merrill, and Solanki for Teaching, Research, and Service, respectively.
- Dr. Maria Boerngen from the Department of Agriculture received the North American Colleges and Teachers of Agriculture Teaching Award of Merit.
- Dr. Sally Arnett-Hartwick from the Department of Family and Consumer Sciences received the CAST Outstanding Teaching, Tenured Award.
- Dr. Karen Dennis was named the School of Kinesiology and Recreation's first Fulbright Scholar to Vladimir State University, Russia.

- Dr. Matt Aldeman from the Department of Technology was named the CAST Research award winner in the untenured category, and the University Research Initiative Award winner and nominated for the American Society for Engineering Education, New Materials Educator Award. Drs. Ashley Farmer from the Department of Criminal Justice Sciences, Scott Pierce from the School of Kinesiology and Recreation, and Jen Barnes from the Department of Family and Consumer Sciences were also named University Research Initiative Award winners.
- Dr. Shelly Clevenger from the Department of Criminal Justice Sciences was named the ISU Stan and Sandy Rives Excellence in Undergraduate Education award winner.
- Dr. Julie Schumacher from the Family and Consumer Sciences department received the CAST Outstanding Service Award.
- Dr. Jennifer Peterson from the Department of Health Sciences received the ISU IMPACT Award.
- Dr. Bill Anderson from the Family and Consumer Sciences department was nominated for National Council on Family Relations, Ernest G. Orborne Award for innovative teaching in family science.
- Dr. LC Yang from the Department of Health Sciences won the CAST Outstanding Teacher (pre-tenure) Award.
- Dr. So Young Song from the Family and Consumer Sciences Department was awarded the 2019 Paper of Distinction by the International Textile and Apparel Association and the Betty J Cleckley Minority Research Award by American Public Health Association.
- Dr. Carissa Carlson from the Family and Consumer Sciences Department received the CAST Outstanding AP Staff Award.
- Dr. Xing Fang and Dr. Yongning Tang from the School of Information Technology took second place at the Intelligent Water System Project competition in Chicago, through a collaboration with the Metropolitan Water Reclamation District of Greater Chicago and a graduate student.

Goal IV: Develop and maintain productive relationships with external constituencies.
(Supports *Educate* • *Connect* • *Elevate Goals 3 and 4*)

Major Accomplishments CAST Goal IV:

- CAST held CAST Connections; a networking event aimed at connecting students with alumni. Over 100 students met with alumni and staff to focus on mentorship, critical thinking, and problem-solving. The event kicked off with a leadership-focused panel of four alumni, followed by lunch and roundtable discussions.

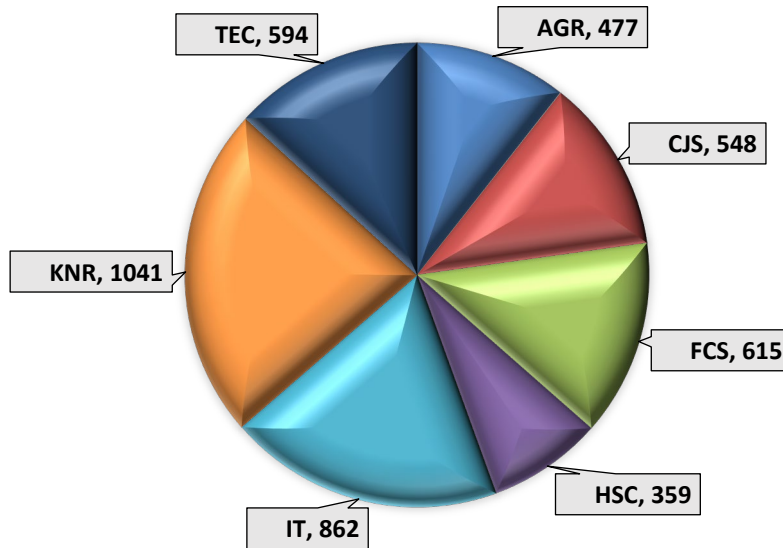
- Dr. Nicholas Heller from the Department of Agriculture collaborated with Dr. John Sedbrook of the School of Biological Sciences to secure a \$10 million United States Department of Agriculture, National Institute of Food and Agriculture grant studying Pennycress to address several societal issues including food security, environmental degradation, and climate change.
- Since 2013, the Fresh FAVS program, a partnership between the Department of Family and Consumer Sciences, Wellness, and Event Management, Dining and Hospitality, has provided reasonably priced fresh fruits and vegetables to students, faculty, and staff on campus. This award-winning program was developed by a Dietetic Intern.
- The Physical Education Teacher Education Club from the School of Kinesiology and Recreation helped host community outreach events including SHAPE Up Illinois, Evans Junior High School 5-K event, and Oakdale Family PE night.
- The Gamma Phi Circus performed in New York City as part of the Macy's Thanksgiving Day parade.
- Dr. Jim Broadbear from the Department of Health Sciences completed his national certification as a health and wellness coach.
- Dr. Dawn Beichner from the Department of Criminal Justice Sciences served on the Executive Committee of the World Society of Victimology and was appointed as the liaison to the United Nations.
- Dr. Jackie Lanier from the Department of Health Sciences was selected as Co-Director of the American Democracy Project.
- Dr. Kelly Laurson from the School of Kinesiology and Recreation was selected as a member of the Cooper Clinic/Fitness Gram scientific advisory board.
- The Technology and Engineering Education Collegiate Association students from the Department of Technology hosted a Tech Day for high school students. This day is also a significant recruiting event and attracted over 400 secondary students in Fall 2019.
- The students from the Department of Criminal Justice gave back – donating over 400 items of clothing to the Sheridan Correctional Facility and over 100 books to the McLean County jail through the efforts of their student groups -- Criminal Justice Association, Alpha Phi Sigma, and Honor's Club.
- Dr. Maria Boerngen from the Department of Agriculture serves as the Academic Vice President of the Illinois Society of Professional Farm Managers and Rural Appraisers and the Chair-Elect of the Western Education and Research Activities Committee on Agribusiness.

- The School of Kinesiology and Recreation Physical Education Teacher Education students in KNR 383 – Adapted Physical Education participated in a new clinical experience called Jon’s Heroes in Training to work one-on-one with a student with Autism Spectrum Disorder (ASD). Jon’s Heroes is a collaboration among representatives from the College of Education special education students, KNR, and community families. KNR therapeutic recreation students prepared a leisure transition plan for each parent of a child with ASD for use in the community.
- Dr. Josh Brown (Co-PI) and Dr. Ted Branoff (Senior Researcher) from the Department of Technology continued a \$599,485 NSF grant titled “Active Learning Modules to Support Problem-Based Learning: Effects on Engineering Retention and Academic Outcomes of At-Risk Students”. Illinois State is a sub-awardee on this grant and will receive approximately \$80,000 over FY19 and FY20. This grant is a collaboration with faculty at Embry-Riddle Aeronautical University, North Carolina State University, and Texas Tech University.
- Dr. Dale Brown from the School of Kinesiology and Recreation coordinated a summer Physical Education Teacher Technology Workshop attended by alumni and professionals throughout the state of Illinois, and served on several Illinois Public Health Institute (IPHI) subcommittees the Illinois Alliance to Prevent Obesity (IAPO) Workgroup on Physical Education Legislation and IAPO Workgroup on Childhood Nutrition and Physical Activity in Educational Settings.
- Dr. Skip Williams from the School of Kinesiology and Recreation served as President-elect of the Illinois Association of Health, Physical Education, Recreation, and Dance.
- Dr. Chris Merrill from the Department of Technology secured a \$635,000 federal grant titled “Illinois Career and Technical Education Innovative Curriculum Resources Project”.
- Women in Information Technology from the School of Information Technology, volunteered at *Millennium Girls*, providing mentors for a program at the Normal Public Library, and are working to provide merit badge workshops for local Girl Scout troops.
- Dr. Mary Henninger from the School of Kinesiology and Recreation served as President of the Illinois Association of Health, Physical Education, Recreation, and Dance.
- Dr. Elahe Javadi from the School of Information Technology offered programming classes for 4-H of McLean County and Boys and Girls Club.
- The Gardens at the Horticulture Center and the Department of Agriculture provided an opportunity for approximately 3,000 visitors to learn about horticulture and hosted the 14th annual Autumnal Festival.

- Dr. Nikki Hoffman from the School of Kinesiology and Recreation established a collaborative research project with Student Health Services to conduct comprehensive post-concussion evaluations for students.
- Construction Management faculty from the Department of Technology (TEC) sponsored a Career Fair that attracted various firms, many of whom were staffed by TEC alums.
- Dr. Skip Williams from the School of Kinesiology and Recreation was the Illinois Association of Health, Physical Education, Recreation, and Dance Scholar.
- The Engineering Technology faculty from the Department of Technology hosted the Illinois Drafting Educators Association annual meeting in the fall and a drafting competition for students in the spring, attracting 25 – 40 teachers, many of whom are alumni, and over 200 students.
- Dr. Tracy Mainieri from the School of Kinesiology and Recreation delivered the Keynote address for the annual Academy of Leisure Sciences Conference.
- The Department of Agriculture was highlighted once per month on WJBCs noon Agriculture Program.
- The School of Information Technology hosted meetings with the Business and Industry Advisory Council (BIAC) and the Telecommunications Advisory Board (TAB).
- Dr. Dave Kopsell from the Department of Agriculture served as the Vice President of the Education Division of the American Society of Horticulture Science.
- Dr. Yoon Jin Ma from the Department of Family and Consumer Sciences served as an Illinois State University Coleman Faculty Entrepreneurship Fellow. The Fellows program is part of the George R. and Martha Means Center for Entrepreneurial Studies.
- The Department of Agriculture continued a partnership with GROWMARK to culture turf variety plots and host its annual professional field day event.
- Dr. Tom Fuller from the Department of Health Sciences was nominated as a Fellow of the American Industrial Hygiene Association and elected the International Occupational Hygiene Association's president-elect.
- For the fifth year in a row, the department hosted the first meeting of the 2019-2020 year of the Family and Consumer Sciences Professionals of McLean County. This meeting included the use of the Foods Lab and Dr. Julie Schumacher was the featured speaker.
- Ms. Cori Malone from the Department of Agriculture was the Chairman of the Illinois Beef Expo.

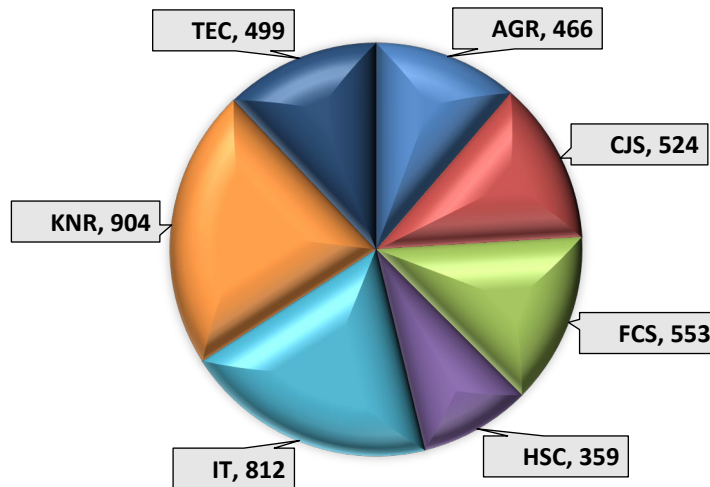
C. Measures of Productivity

CAST TOTAL ENROLLMENTS FALL 2019



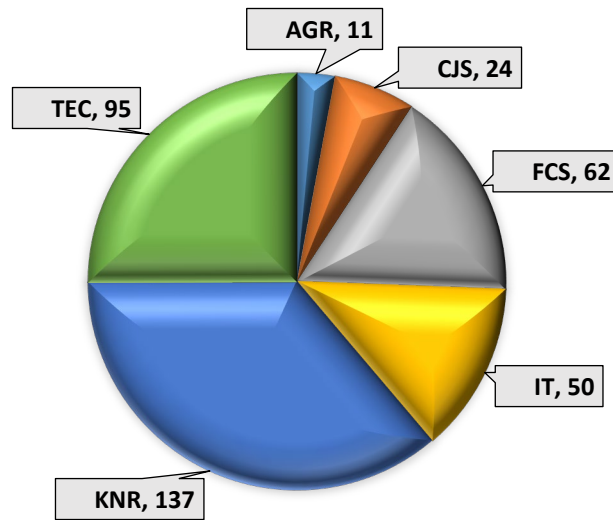
CAST had a total enrollment of 4,496 in Fall 2019.

FALL 2019 UNDERGRADUATE ENROLLMENTS BY UNIT



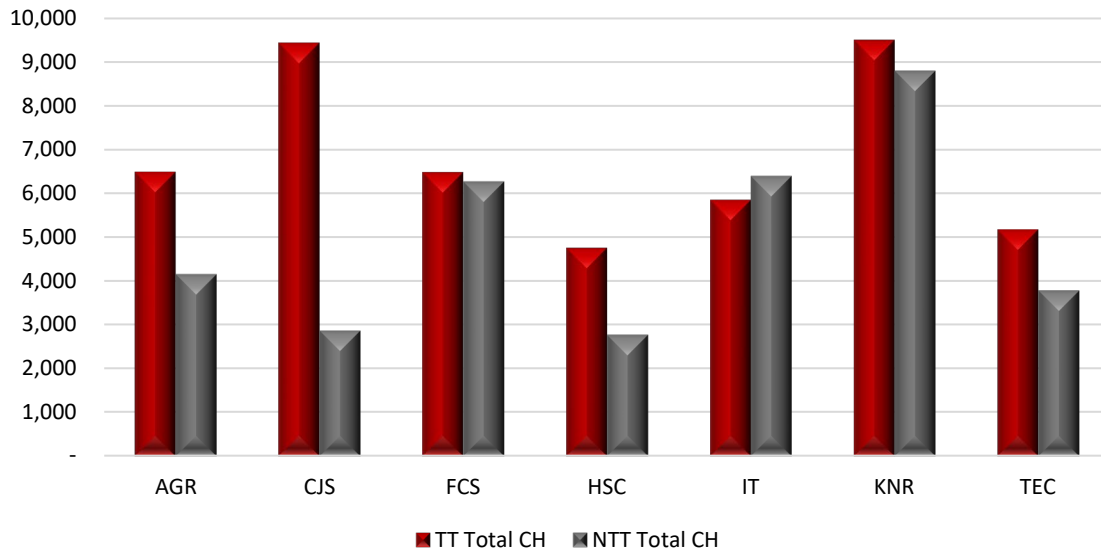
CAST enrolled 4,117 undergraduate students in Fall 2019.

FALL 2019 GRADUATE ENROLLMENTS BY UNIT

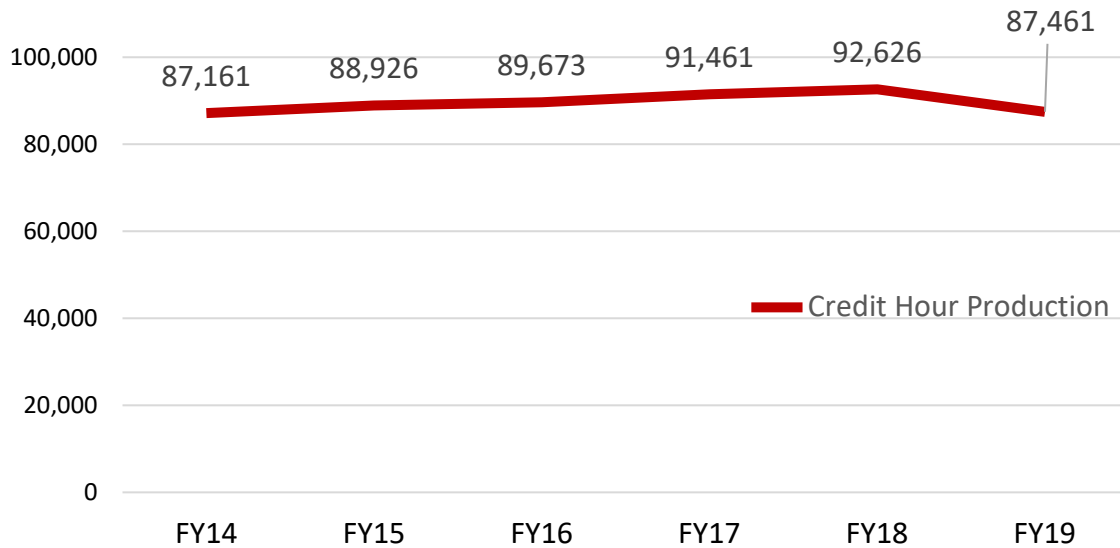


CAST enrolled 379 graduate students in Fall 2019.

FY19 Total Credit Hours per Unit by TT/NTT

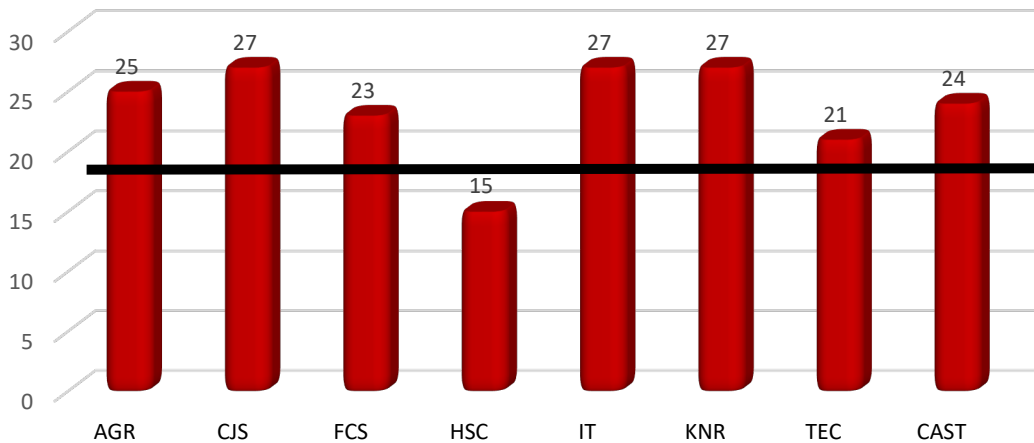


Credit Hour Production FY14-FY19

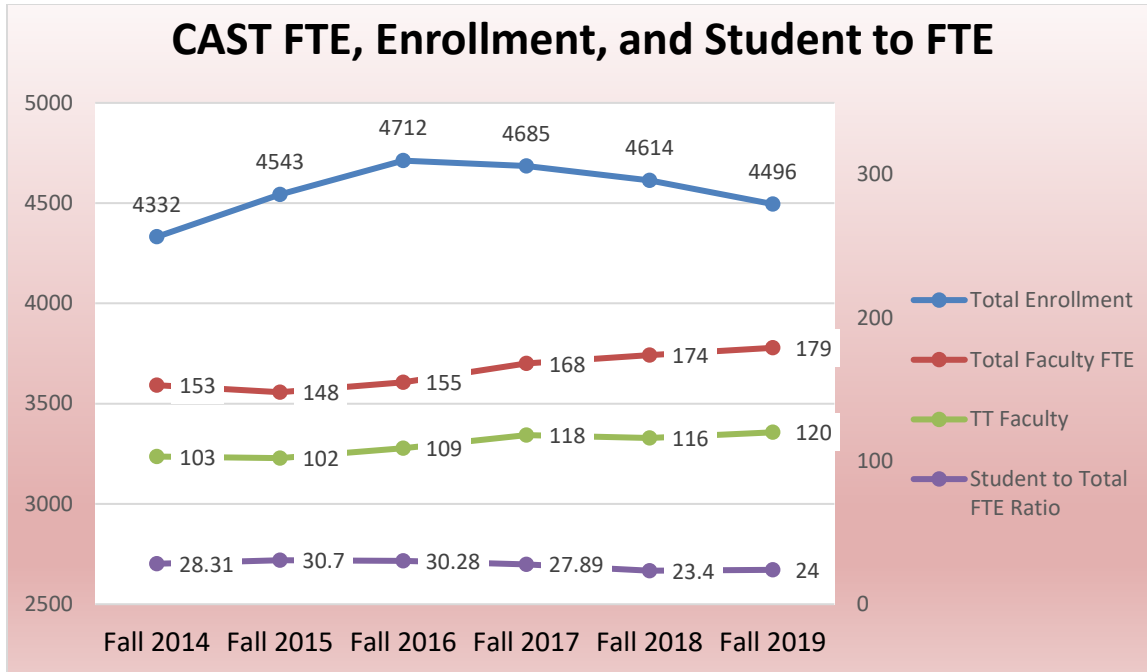


CAST faculty generated 87,461 credit hours during FY19 (the most recent year available). This includes credit hours generated by tenure-track (TT) and non-tenure track (NTT) faculty, as well as administrative professional (AP), graduate students, and others providing instruction. CAST TT Faculty generated 47,648 credit hours, while NTT Faculty generated 34,554 credit hours.

Fall 2019 Total Students to Total FTE

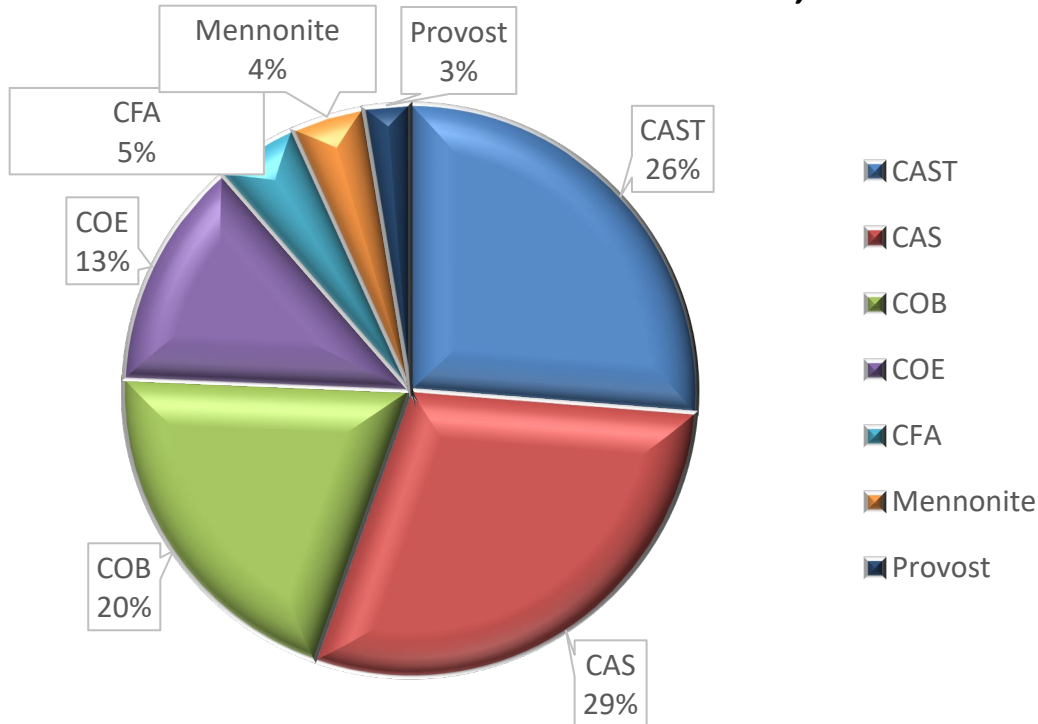


The ratios for students to FTE faculty (TT + NTT) are higher than the University target for six of the seven CAST academic units. The CAST average is about 24 students per FTE.



The historic averages for total FTE, total enrollment, and student to FTE ratios from Fall 2014 to Fall 2019 are depicted above. CAST enrollment has declined by 216 students from its highest Fall 2016 levels but is up 164 students over Fall 2014. Of the 18,199 ISU students enrolled in plans in the Fall of 2019, 4,117 or 23 percent had majors in CAST. During the same time period, CAST had 120 tenure track faculty, representing 17 percent of the University’s tenure track faculty. As mentioned above, this results in a Student-to-Faculty ratio of 24, compared to the University ratio of 19.

DEGREES CONFERRED BY COLLEGE, 2019



In 2019, CAST conferred 1,198 baccalaureate degrees and 221 master’s degrees. This total of 1,419 degrees represents 26% of the University total (5,403).

CAST Teaching Excellence		
	Percentage of scores similar, higher or much higher in the IDEA Database	Percentage of scores similar, higher or much higher in the IDEA Database
	Spring 2019	Fall 2019
ALL CAST		
Progress on Relevant Objectives	91%	83%
Excellent Teacher	83%	80%
Excellent Course	77%	77%
Summary	88%	81%

All academic units in CAST apply the IDEA Student Ratings of Instruction as a partial means (up to 50%) of evaluating teaching in the College. CAST has used IDEA for over 18 years to obtain summative and formative data. These data are used to inform changes in content delivery and teaching methods, internal and external program assessment, promotion and tenure decisions, and merit evaluations. The table above provides a summary of how CAST courses compare to the entire IDEA database during spring and fall 2019 semesters. When drawing conclusions from the table below, research indicates that if the value exceeds 70 percent for any given measure, the overall instructional effectiveness for the group is very high.

While the IDEA instrument is not used as the sole indicator of teaching effectiveness, these data suggest that teaching effectiveness of CAST faculty during 2019 compares favorably with the data collected for all institutions that use IDEA. In addition to IDEA data, Departments and Schools in CAST use a variety of assessment methods to evaluate teaching. Examples include the review of teaching materials, professional development efforts in the area of teaching, peer review of teaching, self-reflection, and evaluation services provided by CTLT. As the data collected from these additional assessment practices are specific to faculty members and to the academic unit, no aggregate data are available for this report.

There are other measures of success in the area of teaching within CAST. In FY20, 136 CAST faculty and staff amassed 2,298 of hours of programming offered by the Center for Teaching, Learning, and Technology. In addition, the Department of Criminal Justice Sciences was recognized at the 2020 Teaching Symposium, with a Path to Excellence Award based on their leadership in pursuing teaching excellence, as demonstrated by their high level of participation in professional programs offered by the Center for Teaching, Learning, and Technology.

Curriculum submissions for review	
Submissions	#
New Program	2
New Course	27
Revised Course	17
Change in Requirements for Major	5
Other Program Change	1
Change in Requirements for Sequence	8
Change in Requirements for Minor	2
Deleted Program	0
Course Deletions	8
Total	70

Another measure of teaching success is illustrated by the curricular work of the faculty of the college. As indicated in the table below, in Fall 2019 and Spring 2020, CAST Departments and Schools wrote 16 updates and revisions to their programs (including majors, minors and sequences). In addition, CAST faculty authored 27 new courses in the departments and schools of Agriculture, Criminal Justice Sciences, Family and Consumer Sciences, Health Sciences, Kinesiology and Recreation, Information Technology and Technology. Departments and Schools also revised 17 courses and deleted 8 courses. Finally, CAST was excited to receive approval from the Illinois Board of Higher Education in the Fall of 2019 for the School of Kinesiology and Recreation’s new Master of Athletic Training Program, as well as approval from the ISU Board of Trustees in Spring 2020 for the Department of Technology’s B.S. in Computer Systems Technology.

CAST FY19 External Funding Data				
	Submissions		Awards	
	No. of Proposals	Amount Requested	No. of Proposals	Amount Received
Agriculture	10	\$213,822	5	\$52,859
Criminal Justice Sciences	2	\$402,483	0	\$0
Family and Consumer Sciences	2	\$338,425	2	\$1,228,496
Health Sciences	4	\$266,594	1	\$500
Information Technology	2	\$151,314	2	\$76,318
Kinesiology and Recreation	4	\$127,577	1	\$13,307
Technology	6	\$1,045,655	5	\$737,124
TOTAL	30	\$2,545,870	16	\$2,108,604

CAST faculty and staff demonstrated strong productivity in the number and monetary amount of external funding submissions through the Office of Research and Sponsored Programs in FY19 (most recent year available; see chart above). CAST faculty and staff submitted 30 grant proposals requesting a total of \$2,545,870. Each of the seven academic units were involved in the submission of external funding proposals. A total of 16 grant proposals were funded for \$2,108,604.

CAST Productivity in Research, Scholarship, and Creative Expression	
Accomplishment	CAST Number for 2019-2020
Refereed Manuscripts	166
Books	7
Book Chapters	16
Published Abstracts	25
Refereed Presentations	114
Invited Presentations	21
Refereed Proceedings	113

The table above summarizes the productivity of CAST faculty and staff during 2019-2020 in terms of research, scholarship, and creative expression. CAST faculty and staff made 135 refereed and invited presentations and 113 proceedings, as well as successfully published 166 refereed journal articles, 7 books, 25 abstracts and 16 book chapters. Collectively, the efforts of the CAST faculty in terms of external grant submissions and outcomes related to research are noteworthy and support the mission of the College and the University. Furthermore, many of the faculty efforts are linked directly to teaching and mentoring through the involvement of undergraduate and graduate students who contribute to the scholarly pursuits of the faculty member. In fact, CAST faculty published 48 products with student co-authors in 2019-2020 and completed 48 presentations with student co-authors at national and international conferences. The research efforts are also used effectively to inform the teaching of course content and to link faculty with peers and constituents that represent our varied disciplines.

CAST faculty members published 214 peer-reviewed outcomes (manuscripts, books, book chapters, published abstracts, etc.) and made 248 peer-reviewed and invited presentations and refereed proceedings. These numbers equate to 3.0 refereed outcomes per full-time faculty member (TT + NTT = 153) or 3.85 outcomes per TT faculty member (120).

CAST Accreditations

Dept./ School	Program	Accreditation Agency	Fees*	Last Site Visit	Next Scheduled Visit
AGR; FCS; HSC; KNR; TEC	5 Teacher Education Programs	National Council for Accreditation of Teacher Education	\$2,040 per program	2019	2026
FCS	Department	American Association of Family and Consumer Sciences (AAFCS)	\$2425	2011	2021
FCS	Interior/ Environmental Design	Council for Interior Design Accreditation (CIDA)	\$2300	2014	2021
FCS	Food, Nutrition, & Dietetics (DPD)	Accreditation Council for Education in Nutrition and Dietetics (ACEND)	\$2075	2018	2025
FCS	Masters Dietetic Internship	Accreditation Council for Education in Nutrition and Dietetics (ACEND)	\$2075	2018	2025
FCS	ISU Childcare Center	National Association for the Education of Young Children (NAEYC)	\$550	2016	2021
HSC	Medical Laboratory Science	National Accrediting Agency for Clinical Laboratory Sciences	\$2,325 annual	2015	2025
HSC	Community Health	Council on Education for Public Health (CEPH)	\$3,900 annual	2019	2024
HSC	Health Information Management	Commission on Accreditation of Health Informatics and Information Management Education	\$3,000 annual	2020	2025
HSC	Environmental Health	National Environmental Health Science & Protection Accreditation Council	\$2,300 annual	2019	2025
HSC	Safety	Accreditation Board for Engineering and Technology	\$1,440 annual	2014	2020

IT	Computer Science	Accreditation Board for Engineering and Technology	\$700 annual/ \$5100 ongoing	2014	2020
IT	Information Systems	Accreditation Board for Engineering and Technology	\$700 annual/ \$5100 ongoing	2014	2020
KNR	Graduate Athletic Training	Commission on Accreditation of Athletic Training Education	\$2500 annual/ \$5,000 visit year	2016	2021
KNR	Recreation & Parks Admin	National Recreation & Park Association	\$900 annual/ \$1,950 visit year	2015	2022
KNR	Undergraduate Athletic Training	Commission on Accreditation of Athletic Training Education	\$5000 annual/ \$5,000 visit year	2013	2023
TEC	Engineering Technology and Computer Systems Technology	Association of Technology, Management and Applied Engineering	\$2,650	2017	2023
TEC	Construction Management	American Council for Construction Education	\$2,750	2015	2021
TEC	Graphic Communications	Accrediting Council for Collegiate Graphic Communication	\$2,500	2015	2021

* The designation for “ongoing” in the category of Fees is the added charge (less site visitor expenses) during a review year.

One measure of distinctiveness and success not captured with the standard measures is the success of CAST with external accreditations. The College maintains 20 undergraduate program accreditations from 15 distinct accrediting agencies in four departments and two schools. The College also maintains two accredited graduate programs, one in FCS and one in KNR and one accredited childcare center. From the table, it is evident that most of the applied programs in CAST are externally validated through accreditation. Each academic department and school, with the exception of CJS, maintains at least one accredited program.

II. Internal Reallocations and Reorganizations in FY20

A. Describe any reallocations or reorganizations, including the movement of positions, upgrade of positions, creation of new positions, or reallocation of personnel or operating funds.

- In the Department of Agriculture, Dr. Brent Beggs became Interim Chair.
- In the Department of Agriculture, Ms. Cori Malone's assignment was reorganized to include part-time advisement, assisted by Provost Enhancement funds.
- The Department of Criminal Justice Sciences hired Ms. Tamekia Bailey as the Coordinator of Undergraduate Studies and Student Support Services. This was a reorganization of the position previously held by Dr. Susan Woollen who was the Director of Undergraduate Studies and Enrollment Management.
- Dr. Marla Reese-Weber became Interim Chair in the Department of Family and Consumer Sciences.
- The Department of Family and Consumer Sciences received university approval for a new Distance Dietetic Internship certificate using a Full Cost Recovery model in Fall of 2018. The department conducted a national search for an Assistant Director, Ms. Kaitlin Byrd, who began her role in January 2018. Beginning August 16, 2019, she began in a full-time non-tenure track position.
- In FY20 the Provost's office provided partial temporary funding for additional advising assistance for the Department of Family and Consumer Sciences and Michelle Ruby was in that role, as well as coordinating the Professional Practice Internships (.25). She has since left the university and Pam Morbitzer, a full-time NTT, currently works with prospective students and FCS Student Ambassadors. This division of labor enables Clint Smith, FCS Academic Advisor, to have more time to spend with current students. While professional practice coordination was assigned to Pam Morbitzer as an overload for 2019-2020, she is not interested in continuing that role. To meet these continued unmet needs, the Department is currently in the process of hiring another academic advisor. They will partially fund the position through permanent variance from previous CS position.
- In the Health Sciences Department, Ms. Heather Mautino resigned.
- Due to the increased number of students in Cybersecurity, the advisors in the School of Information Technology, have had some of their responsibilities allocated. Ms. Sherry Jerome, the graduate advisor, is advising all Information Systems and Network and Telecommunications Management majors as well as a share of the Cybersecurity majors. This will be revisited as the Masters in Computer Sciences begins enrolling students in Jan 2021.

- In the School of Kinesiology and Recreation, Dr. Barbara Schlatter became Interim School Director, replacing Dr. Dan Elkins who was appointed Associate Vice President for Academic Fiscal Management.
- In the School of Kinesiology and Recreation, Dr. Skip Williams became Assistant School Director, replacing Dr. Barbara Schlatter.
- In the School of Kinesiology and Recreation, Dr. Emily Jones became the Physical Education Teacher Education program director and Physical Education Pedagogy graduate sequence coordinator, replacing Dr. Skip Williams.
- In the School of Kinesiology and Recreation, Dr. Mike Mulvaney became the Recreation and Parks Administration program director, replacing Dr. Brent Beggs who was appointed Interim Department Chair of Agriculture.
- In the School of Kinesiology and Recreation, Dr. Scott Pierce became the Graduate Program Director, replacing Dr. Noelle Selkow who was appointed Interim Director of the Graduate School.
- In the School of Kinesiology and Recreation, Dr. Dan Dodd became the Exercise Science Professional Practice Coordinator, replacing Ms. Betty Henson in January 2020.
- Military Sciences welcomed Lieutenant Colonel Kraig M. Kline to campus.
- Ms. Misty Bell was hired in May of 2019 as the Department of Technology's new lead staff to replace Cindy Wert, who took a position in the School of Art.

B. Describe how the unit used additional funds from the Provost Office to enhance accomplishments and productivity. Additional Provost Office funds could include funding sources such as: Enhancement funds, Instructional Capacity funds, Summer Session funding, or variance dollars from buyouts or sabbaticals

FY20 Provost Enhancement Projects

- Support for Academic Advisors (FCS & AGR): We received \$45,406 in support of additional academic advisors in the Departments of Agriculture and Family & Consumer Sciences. Both departments have experienced enrollment growth over time and the current advisors in each unit were increasingly challenged to meet the needs of the students. With this funding, we were able to add a .5 FTE academic advisor to each department. This has been very successful in that we have achieved the close, personal, student-centered approach to recruitment and retention in both departments. We will continue to seek permanent or temporary funding in support of academic advising for those units with very high student to advisor ratios that have resulted from rapid enrollment growth. We spent \$30,985 of the allocated \$45,406 and will be returning \$14,421 to the Provost's office. Since the allocation was requested, there have been personnel changes that impacted salary and summer availability, resulting in the return of funds (discussed in detail above, Internal Reallocations and Reorganizations in FY20).

- ID Studio Renovations. \$200,000.
In the Fall of 2019, the plans for the renovation of FCS Interior Design lab were completed and went out for bidding. The department will vacate the space after finals week in May and the work will begin. The PE funds were transferred to Facilities to enable the purchase of supplies and materials. The estimated substantial completion date for the project is July 31, 2020.
- AC for Ropp Ag Engineering Technology Laboratory. \$158,000.
In the Fall of 2019, the air conditioner was installed and updates to the power system were completed for the air conditioning installation in the Ropp Engineering Technology Laboratory. The PE funds were transferred to Facilities to enable the start of that project. Once it gets warm enough this Spring, the system will be tested and then the project will be complete.

FY20 Instructional Capacity Allocations

Unit	Allocated in FY20	Expended in FY20	Difference
AGR	\$60,446	\$80,404	(\$19,958)
CJS	\$23,761	\$24,395	(\$634)
FCS	\$124,420	\$202,018	(\$77,598)
HSC	\$107,638	\$167,960	(\$60,322)
IT	\$197,336	\$269,545	(\$72,209)
KNR	\$134,324	\$156,664	(\$22,340)
TEC	\$145,091	\$209,720	(\$64,629)
TOTAL	\$793,016	\$1,110,706	(\$317,690)

The table above illustrates how Instructional Capacity expenditures were made in each Department and School in CAST during FY20. The figure for “total allocated” includes the Provost allocation of \$770,000 plus \$23,016 added to help FCS and TEC with additional sections. In addition, CAST spent approximately \$50,000 that had been SBC’d from FY19 and the units spent \$244,707 of local funds (combination of variance and temporary salary from non-reappointments, leaves, etc.) to meet the instructional needs of the students. The remaining \$22,983 was from Provost Enhancement funds to help supplement advising in CAST units experiencing growth (reported on the Instructional Capacity Accountability Report).

FY20 Summer Session Funding

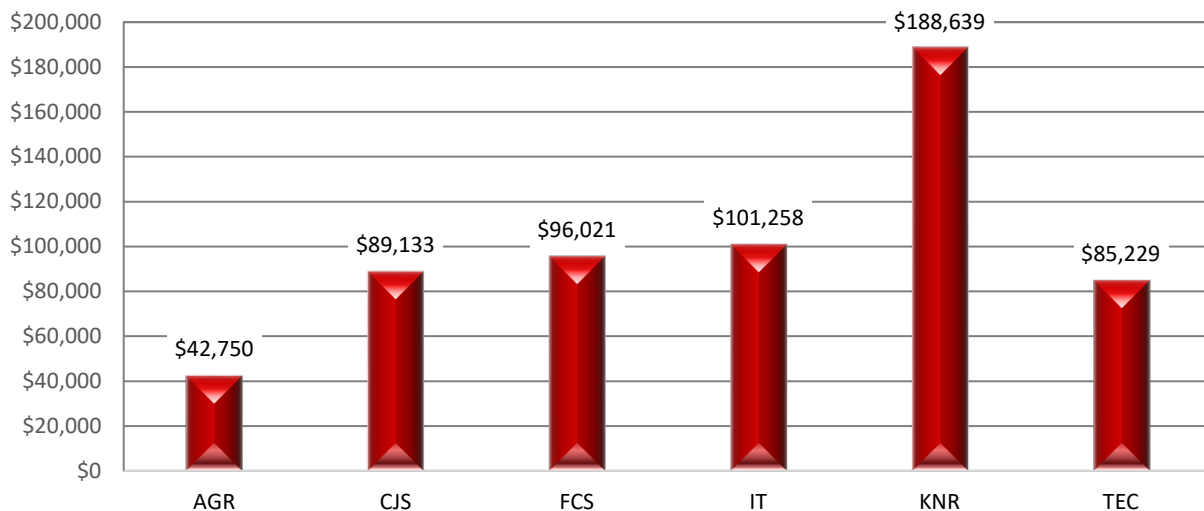
CAST was allocated \$590,000 for summer session funding from the Office of the Provost. Following is a breakdown of the allocation to CAST units.

CAST Unit	Summer 2020 Allocation
AGR	\$72,179
CJS	\$88,949
FCS	\$60,068
HSC	\$84,267
IT	\$96,145
KNR	\$137,648
TEC	\$50,744
Total	\$590,000

FY20 Variance

CAST units spent approximately \$244,707 of local funds (combination of variance and temporary salary from non-reappointments) to meet the instructional needs of the students. Remaining variance dollars were used to supplement operational dollars including travel and equipment lines. CAST SBC'd \$50,000 in FY19 to help schools and departments with Instructional Capacity costs for FY20.

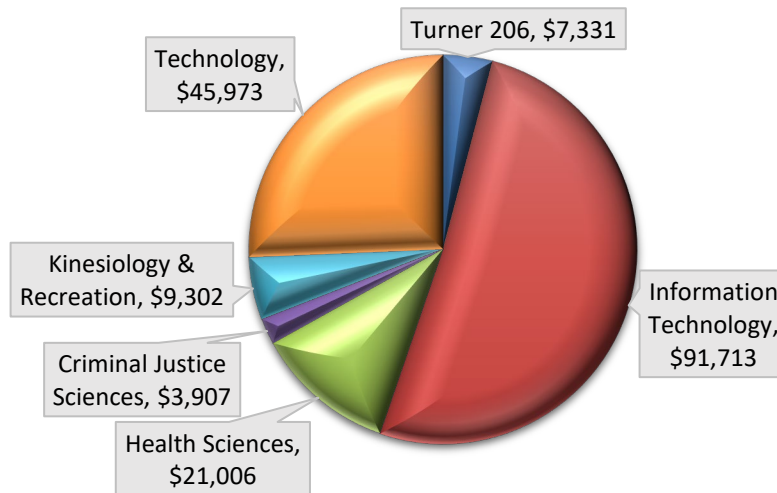
FY20 Funding for Graduate Assistantships (\$603,030)



A total of \$603,030 was used for stipends across six departments and schools in FY20. The table below shows the total amount of graduate assistantship resources spent in department and school in CAST.

FY20 Technology

Distribution of Technology Funding for FY20



Technology Tuition and Academic Enhancement (Technology) Funds have historically been allocated within the College for acquisition of specialized software, equipment purchases, and to support student workers in computer laboratories. As we transition to Academic Enhancement Funds, departments and school have focused on innovative ways to support student success. The total allocation to CAST in FY20 was \$179,232. The breakdown of the distribution to the units is above.

- C. Describe how the unit used additional funds from College/Department/School/Unit to enhance accomplishments and productivity. Additional funds could include such as: external funding, Foundation funds, variance dollars (note: this does not include variance dollars from AIF), or external contracts.

FY20 Foundation – selected accomplishments

- Total Market Value of CAST Endowment: \$11,685,704
- FY20 Fundraising to date: \$724,147
- Comprehensive Campaign Goal: \$14,000,000; Raised to date: \$14,586,628
- Birds Give Back: CAST received \$29,422 from 252 gifts.
- Key investments to CAST: an \$800,000 bequest commitment from Diane Dahlmann to support the Sandy Little Groves Legacy Scholarship in the School Kinesiology and Recreation, \$50,000 cash gift to the Department of Agriculture in support the ISU Farm, and \$50,000 from the State Farm Foundation.

FY20 Variance

- **CAST Connections. \$5,149**
CAST Connections is a networking event aimed at connecting students with alumni. This Fall, over 100 students met with alumni and staff to focus is on mentorship, critical thinking, and problem-solving.
- **Washington, D.C. Internship Program. \$15,615**
The CAST Washington, D.C., Summer 2020 scholarship program encourages professional practice opportunities for high achieving students who wish to pursue a summer internship in Washington, D.C. CAST offers financial support to offset the cost of housing while student intern at various federal executive, legislative, and judicial offices in our nation’s capital.
- **CAST Persistence Scholarships. \$59,440 (including \$10,000 donated by *Country Financial*)**
These one-time scholarships are awarded in both the Fall and Spring semesters to academically talented seniors whose graduation goals are blocked by financial obstacles. By the end of the FY20 fiscal year, CAST will have distributed over \$100,000 in student scholarships to ensure the success of CAST students. We are thankful to *Country Financial* for their generous \$10,000 gift in support of this important work.
- **IDEA. \$18,913**
All academic units in CAST apply the IDEA Student Ratings of Instruction as a partial means (up to 50%) of evaluating teaching in the College. CAST has used IDEA for over 18 years to obtain summative and formative data. These data are used to inform changes in content delivery and teaching methods, internal and external program assessment, promotion & tenure decisions, and merit evaluations.
- **Military Science Facility Updates. \$12,000 (estimated)**
CAST has made several improvements to the Military Sciences facilities this year, including remolding their breakroom and adding a sink. We also removed drywall in the basement and added chain link fencing for additional security.
- **Agriculture Farm Orbit Screener. \$5920**
CAST purchased a screener/grinder for the Farm to improve the soil for planting at the farm.
- **CAST Faculty and Staff Professional Development. \$9,844 (estimated)**
All tenured, tenure track, 100% employed continuing non-tenured track faculty, administrative professional, and civil service staff are eligible to receive support from the Faculty/Staff Professional Development Fund one time per fiscal year. This year CAST faculty and staff applied for funds to enhance certifications, improve their research and classroom outcomes, and to speak to policymakers across the globe. Over \$25,000 was allocated, but many trips were canceled due to the coronavirus pandemic.