



COLLEGE OF
**APPLIED SCIENCE
AND TECHNOLOGY**
Illinois State University[®]

**FY22 Annual Report &
FY23 Major Objectives**

Illinois State University
College of Applied Science and Technology (CAST)
FY22 Annual Report & FY23 Major Objectives
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College of Applied Science and Technology

FY22 Annual Report

Accomplishments and Productivity for FY22

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, as outlined in our [Strategic Plan: 2019-2024](#).

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.

GOALS

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

- 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).**

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 distributed over \$62,500 in persistence grants to ensure the retention of dozens of matriculating CAST students experiencing financial hardships in fall 2021 and spring 2022. These one-time grants were awarded to students whose graduation goals were blocked by financial obstacles.
- CAST launched a Student Success Center called CAST Connections. CAST Connections is responsible for developing student success initiatives for the College of Applied Science and Technology. CAST Connections creates cross-functional student programs and services that focus on equity, a sense of belonging, wellness, and personal development. CAST Connections is committed to customizing success to ensure students receive individualized attention (<https://cast.illinoisstate.edu/connections/>).
- All departments and schools in CAST continue to recruit outstanding students to our degree programs. These recruitment efforts include community college visits, student ambassador programs, high school career fairs, and hosting open houses and other welcoming events. Several CAST programs are working on targeted recruitment campaigns. For example, the Family and Consumer Sciences department created short videos for their undergraduate and accelerated master's program to increase their recruitment efforts. In addition, they offered scholarships to potential students in low enrolled programs and created fun competitions for students to engage with a few of their traditionally "found majors." CAST departments and schools have also increased their digital marketing to strategically increase their reach to potential students.
- CAST Teacher Education programs, including Agricultural Education, Physical Education Teacher Education, Technology Education, Health Education, and Family and Consumer Sciences Teacher Education, received high marks in the Illinois Educator Preparation Profiles by the Illinois State Board of Education.
- CAST Undergraduates, Savanah Kinney from the Department of Technology and Dylan Toth, from the Department of Family and Consumer Sciences were recognized as Bone Student Scholars.
- Raeann Huffman from the Department of Agriculture was named the CAST Outstanding Graduate Student Researcher Award, Thesis category and winner of the University's Fisher Thesis Award.
- Graduate students Bethany Wohrley from the Department of Agriculture, and Breiann Richey from the School of Kinesiology and Recreation represented CAST in the University-wide Three Minute Thesis Contest.
- The Physical Education Pedagogy graduate program in the School of Kinesiology and Recreation was rated the #9 best return on investment for online physical education graduate programs by Online U.
- The School of Information Technology (IT) offered tutoring and debugger assistance through their Student Learning Center that was opened in spring 2022. They have already completed over 100 hours of tutoring. IT also hired a Coordinator for Student Success who is focusing on

supporting students at risk in their retention and graduation goals, as well as providing the school with a data-driven understanding of student success.

- For Mission Set 2022, the Military Science program will commission 18 Officers for the Regular Army or Army National Guard. In this cohort, 3 Cadets were designated as Distinguished Military Graduates, which is limited to the top 20% of Cadets nationally and 9 were awarded Cadet Command Scholarships for their demonstrated excellence in scholarship, athletics, and leadership.
- The Department of Agriculture awarded approximately \$65,000 in scholarships to recruit and retain talented students this year.
- Construction Management students from the Department of Technology attended the American Concrete Institute, Associate Schools of Construction, and Mechanical Contractors Association of America conferences and competitions, mostly funded by industry and professional organizations. Graphic Communications Technology students participated in the Phoenix Challenge Competition and took first place in their national competition. Finally, Technology and Engineering Education students participated in the Technology Education Association of Illinois and Technology Student Association, Midwest Technology and Engineering Education Collegiate Association, and International Technology and Engineering Educators Association professional conferences.
- Ms. Bethany Wohrley from the Department of Agriculture was named the ISU Image of Research – Runner-up
- Ms. Jessica Barrack from the School of Kinesiology and Recreation received the L. Marlene Mawson Thesis Award.
- The Department of Family and Consumer Sciences has very high pass rates for their certification exams, including 100% for the Educative Teacher Performance Assessment; 90% for Didactic Program in Dietetics; 98% for Dietetic Internship and 100% for Child Life certification.
- Mr. Marckwardt and 12 students from the Department of Family and Consumer Sciences went to Nashville to tour various fashion industries this fall.
- The School of Information Technology will host the 11th annual Mobile Application Development Contest, sponsored by State Farm later this spring.
- In the School of Kinesiology and Recreation, the annual Esther Larson McGinnis Academic and Service Awards Ceremony was presented virtually and through social media recognizing high-achieving student accomplishments.
- The Department of Health Sciences supported an alternative spring break trip to Tennessee.
- In the School of Kinesiology and Recreation the Master of Athletic Training program accepted its first cohort of students.
- The Department of Criminal Justice Sciences has a new scholarship honoring the memory of Barbara Jean Adkins.
- Staff at the Child Care Center continue to earn additional Gateway credentials to ensure implementation of best practices for both children who attend and ISU students who utilize the Center as a learning lab.
- Department of Family and Consumer Sciences student, Gabby Haskell was named Didactic Program in Dietetic student of the year by the Illinois Academy of Nutrition and Dietetics.

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 sponsors annual 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 systematic exclusion. In Fall 2021, CAST faculty and staff attended “Facilitating Dialogue on Controversial Issues,” and “Decolonizing Our Classrooms and Course Materials: Part 1 and 2” to explore empathy through a diversity, equity, and inclusion lens. In spring 2022, faculty and staff are invited to attend three different workshops aimed at promoting a welcoming and collegial academic community in CAST, including “Becoming an anti-racist educator: Commitment-Change-Sustainability,” “Exploring and Understanding Allyship,” and “Understanding and Recognizing Cultural Appropriation.”
- As a part of CAST Science and Technology Week in April, CAST hosts a Women in Leadership event. Seven out of eight CAST departments graduate female students into male-dominated fields and this day-long programming supports and celebrates their successes.
- Faculty from the Department of Family and Consumer Sciences are participating in a pilot program through the Center for Teaching, Learning and Technology to redesign FCS 112 to increase the focus on diversity in families.
- FCS created a Diversity, Inclusion, Belongingness, and Equity (DEBI) committee this year. The committee is hosting a book club that will include faculty, staff, and students. In addition, the committee is bringing a speaker to campus to discuss belongingness and has also created a climate survey that will collect data from faculty, staff, and students.
- Exercise is Medicine on Campus overseen by Dr. Kristen Lagally and housed in the School of Kinesiology and Recreation is a nationally recognized program by the American College of Sports Medicine that makes exercise accessible to students of all abilities and background. The Exercise is Medicine on Campus (EIMOC) program was recognized (again) as a “Gold” program and earned a COVID Conqueror Badge for their great work during the pandemic.
- The Department of Family and Consumer Sciences hosted Amelia Noel-Elkins, AVP for Student Success, at a faculty meeting to present university and department data regarding student success, as well as information on how to better support students from diverse backgrounds.
- Ms. Tracy Hanson from the Department of Criminal Justice Sciences serves on the Enrollment Management and Academic Services GROWTH Team.
- The faculty in the School of Information Technology created the “We Lead” program, dedicated to underserved students. The inaugural group of We Lead Fellows is 9 students.
- The Department of Agriculture hosted guest speakers native to Brazil, Greece, and the United Kingdom to speak about the international agribusiness sector.
- Ms. Olivia Butts from the School of Kinesiology and Recreation serves on the Multicultural Alliance at Work committee and as the Program Organizer for Black Lives Matter Bloomington Normal.

- The School of Kinesiology and Recreation’s Diversity and Inclusion Committee developed inclusive hiring initiatives to be implemented in the school, conducted a training session for faculty and staff about adding captions to Zoom presentations and YouTube videos, created a calendar to post all diversity and inclusion activities occurring at the university and in the community, developed a mechanism for faculty and staff to report and track diversity and inclusion initiatives and activities in the school and facilitated a book club for faculty and staff to read *33 Simple Strategies for Faculty* by Lisa Nunn and *How to Be an Anti-Racist* by Ibram X. Kendi.
- The Department of Criminal Justice Sciences sponsors: (1) CJS Leads, which continues to be an opportunity for diverse leaders to form their voice and (2) Breaking Barriers, which supports young women as they prepare to enter criminal justice fields.
- Therapeutic recreation students and faculty members Sherri Hildebrand and Nicky Wu 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, virtual reality, and goalball to highlight ways to participate in sports by building independence and social interaction.
- The faculty in the Department of Agriculture are revising their departmental Appointment, Salary, Promotion and Tenure (ASPT) document to reward faculty who infuse diversity in the classroom, extra-curricular activities and/or the Department in general.
- The Recreation and Park Administration program in the School of Kinesiology and Recreation, developed a diversity, equity, and inclusion statement to be utilized in course syllabi.
- The faculty in the Department of Agriculture hosts a registered student organization, Minorities in Agriculture, Natural Resources and Related Sciences (MANRRS) to support underserved students.

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. Charles Bell from the Department of Criminal Justice Sciences was named the CAST Outstanding Teacher in the pre-tenure category.
- Mr. Nick Pershey from the Department of Agriculture was named the CAST Outstanding Teacher in the non-tenure track category.
- Dr. Pranshoo Solanki from the Department of Technology received the CAST Outstanding Researcher Award, Tenured Category.
- Dr. Luke Russell from the Family and Consumer Sciences Department received the CAST Outstanding Researcher Award, Pre-Tenure Category, the Connie Ley Research Award, and University Research Initiative Award.
- Mr. Clint Smith from the Family and Consumer Sciences Department received the CAST Outstanding Administrative Professional Staff Award and the Herb Sanders Award for Outstanding Academic Advisement.
- Dr. Connie Dyar from the Department of Family and Consumer Sciences received the Interior Design Educator Council Service Award from the Council on Interior Design Association.

- Dr. Sally Arnett-Hartwick from the Department of Family and Consumer Sciences was named the Outstanding University Teaching in the tenured category, the 2021 Phyliss Memken Teacher Award, and was inducted into the CAST Hall of Fame.
- Mr. Victor Gonzalez, Logistical Technician from Military Sciences, was selected as Cadet Command's Logistical Technician of the Year.
- Dr. Jay Solomonson from the Department of Agriculture received the Illinois Association for Career and Technical Education (IACTE) Teacher Educator of the Year Award.
- Dr. Dave Thomas from the School of Kinesiology and Recreation received the Illinois Association for Health, Physical Education, Recreation, and Dance Student Mentor Award.
- Dr. Jennifer Banning from the Department of Family and Consumer Sciences, Ms. Jenna Rodda and Dominique Hampton (Student) from the Department of Criminal Justice Sciences, and Ms. Sherri Hildebrand, Ms. Lindsey Nicholson and Ms. Daphyne Walker from the School of Kinesiology and Recreation, Alicia Wodika from the Department of Health Sciences and Ms. Ashley Berg and Dr. Joshua Brown, from the Department of Technology received ISU Impact Awards.
- The School of Information Technology faculty approved the creation of three new faculty awards and nominations are being solicited with the first awards anticipated in April 2022.
- Dr. Julie Schumacher, Department of Family and Consumer Sciences, received the CAST Outstanding Young Alumni Award.
- Dr. Matt Aldeman was recognized with the 2021 Department of Technology Service Award.
- The School of Information Technology funds a research program that offers faculty \$5,000 in summer funding for a School Research Grant program.

Goal IV:

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

Major Accomplishments CAST Goal IV:

- The College of Applied Science and Technology is proud to present the 2022 Science and Technology Week, celebrating advancements in science and technology and the hardworking, dedicated students and professionals who make those advancements possible. This year's Science and Technology Week is scheduled to run from April 4-8. In a new collaborative aspect of the CAST Science and Technology Week, CAST partnered with the Center for Mathematics, Science, and Technology (CeMaST) to provide high school students an opportunity to showcase their research projects at our annual research symposium. In addition, we hosted Mark Safarik, an internationally recognized expert in the analysis and interpretation of violent criminal behavior, as our keynote speaker. Our alums were featured at both the CAST CONNECT event, as well as the Academy of Achievement Induction Ceremony. Finally, CAST Science and Technology week concluded with our Women in Leadership event that featured 20th President of Illinois State University, Dr. Terri Goss Kinzy as the keynote.
- The School of Information Technology created the Center for Cybersecurity Research and Education and enlisted interdisciplinary collaborators. The Center teamed up with OSF Health Care on an artificial intelligence-based vaccination for underserved communities.
- Mr. Jeff Nix from the School of Kinesiology and Recreation served on the Illinois Association of Park Districts Research Advisory Council.

- 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 Family and Consumer Sciences Dietetic Intern.
- Dr. Skip Williams from the School of Kinesiology and Recreation serves as the President of the Illinois Association of Health, Physical Education, Recreation, and Dance.
- Technology and Engineering Education Collegiate Association students, Dr. Merrill, Dr. Brown, and several other faculty in the Department of Technology chaired and judged the Illinois State VEX robotics competition.
- Dr. Jessie Krienert from the Department of Criminal Justice Sciences serves as the President of the McLean County Jail Review Committee, a member of the *Criminal Justice Studies* Editorial Board, and Chairs the Institutional Review Board.
- Dr. Hyoil Han from the School of Information Technology was on the program committee for both the Association for Computing Machinery and IEEE conferences.
- Dr. Jackie Lanier from the Department of Health Sciences served as Co-Director of the American Democracy Project.
- Mr. Troy Blunier from the Department of Technology worked with Engineering Technology and Technology and Engineering Education students on service projects for physically challenged elementary school students.
- Drs. Matt Aldeman and Jin Jo from the Department of Technology organized “An Evening with Tesla” which took place in October of 2021.
- Dr. Jennifer Earing from the Department of Agriculture serves as the Vice President of the Illinois Forage & Grassland Council.
- Dr. Sumesh Philip from the School of Information Technology hosted the Central Illinois High School Cyberdefense Competition.
- Dr. Matt Aldeman from the Department of Technology serves as the Treasurer for the Energy Conversion and Conservation Division of American Society for Engineering Education.
- Dr. Jeff Walsh served on the Institute on Violence Abuse and Trauma’s 19th International Summit Planning committee.
- The Department of Agriculture launched their Agriculture Advisory Board.
- Mr. Troy Blunier from the Department of Technology serves on the Board of Directors for the Council of Supervision and Leadership, International Technology and Engineering Educators Association.
- Dr. Chris Grieshaber from the Department of Health Sciences served on the planning committee for the Applied Ergonomics Society Conference and Expo.
- Dr. Dawn Beichner from the Department of Criminal Justice Sciences served as Vice Chair of the Division of International Criminology (American Society of Criminology), Program Co-Chair for the annual meeting of the Academy of Criminal Justice Sciences, and member of the Editorial Board for *Journal of Ethnicity in Criminal Justice*.
- Dr. Mary Henninger from the School of Kinesiology and Recreation hosted the Jon’s Heroes adapted physical education program that serves children with autism spectrum disorder. Dr. Henninger also serve on Illinois Association of Health, Physical Education, Recreation, and Dance Governmental Affairs Committee.
- Dr. Ted Branoff from the Department of Technology serves as the Treasurer (North & South America) for the International Society for Geometry & Graphics.

- Dr. Dale Brown from the School of Kinesiology and Recreation coordinated a virtual summer Physical Education Teacher Technology Workshop.
- Dr. Pranshoo Solanki from the Department of Technology and Dr. Guang Jin from the Department of Health Sciences are working on an interdisciplinary research project with students, funded by the Environmental Protection Agency using recycled glass as a replacement for cement in controlled low-strength material.
- Dr. Andrew Eberline from the School of Kinesiology and Recreation served on the Society of Health and Physical Educators Midwest District Leadership Council.
- Dr. Klaus Schmidt from the Department of Technology is on the *MDPI-Laws* Editorial Board.
- Dr. Dave Kopsell from the Department of Agriculture is the Vice President of the Education Division of the American Society of Horticulture Science.
- Dr. Josh Brown from the Department of Technology serves as the Treasurer for the Council for Technology & Engineering Teacher Education, International Technology and Engineering Educators Association.
- Dr. Ashley Farmer from the Department of Criminal Justice Sciences served as the Secretary/Treasurer for the American Society of Criminology's Division of Critical Criminology and Social Justice and as Chair of the Public Safety and Community Relations Board for the City of Bloomington.
- Dr. Isaac Chang from the Department of Technology serves as the Vice-President, Graphics Division and Chair of the Exam Commission, Association of Technology, Management, and Applied Engineering.
- Dr. David Thomas from the School of Kinesiology and Recreation serves as the President of the Vladimir Canterbury Sister Cities Association and chaired the Illinois Association of Health, Physical Education, Recreation, and Dance review committee for Program Enhancement Grants.
- Dr. Jin Jo from the Department of Technology serves as the Associate Editor for the *International Journal of Sustainable Building Technology and Urban Development*.
- Dr. Deb Garrahy from the School of Kinesiology and Recreation served as Faculty Sponsor for Special Olympics Illinois State and on the Illinois State Board of Education Committee.
- Dr. Chris Merrill from the Department of Technology serves as Chair for the Illinois Technology Student Association.
- Dr. Nicky Wu from the School of Kinesiology and Recreation served as the Co-Chair for the Membership Committee of the Academy of Leisure Science.
- Dr. Jaby Mohammed from the Department of Technology is the Campus Representative (IN-IL Region) for American Society for Engineering Education.
- Dr. Emily Jones from the School of Kinesiology and Recreation served as Chairperson of the Higher Education Committee for the Illinois Association of Health, Physical Education, Recreation, and Dance.
- Dr. Tracy Mainieri from the School of Kinesiology and Recreation served as a member of the Association of Public and Land-grant Universities Institutional Transformation Assessment Steering Group.
- Dr. Yun Chang, from the School of Kinesiology and Recreation, and a group of undergraduate students evaluated agency programs for the: Normal Parks and Recreation Department, ISU Campus Recreation, Miller Park Zoo, and Children's Discovery Museum.

- The Department of Family and Consumer Sciences hosted their first Friends of Family and Consumer Sciences luncheon in September 2021. Donors, Academy of Achievement recipients, Hall of Fame recipients, former chairs, advisory board members, current faculty and staff, and student Ambassadors were invited to attend the luncheon.
- Dr. Tom Fuller from the Department of Health Sciences serves as a Fellow of the American Industrial Hygiene Association and President of the International Occupational Hygiene Association.
- Dr. Maria Boerngen serves as the Academic Vice President of the Illinois Society of Professional farm Managers and Rural Appraisers and the Chair of the Western Education and Research Activities Committee on Agribusiness.
- The School of Information Technology hosted meetings with the Business and Industry Advisory Council (BIAC) and the Telecommunications Advisory Board (TAB).
- Ms. Cori Malone from the Department of Agriculture serves as the Chairman of the Illinois Beef Expo and as a member of the Illinois Beef Association Board of Directors.
- Dr. Bo Park from the Department of Technology served as an analytics consultant for the Children’s Discovery Museum in Uptown Normal.
- Dr. Pranshoo Solanki serves on the American Concrete Institute Committee and the National Transportation Research Board.
- Dr. Mike Mulvaney from the School of Kinesiology and Recreation served on the Illinois Association of Park Districts Research Advisory Council.

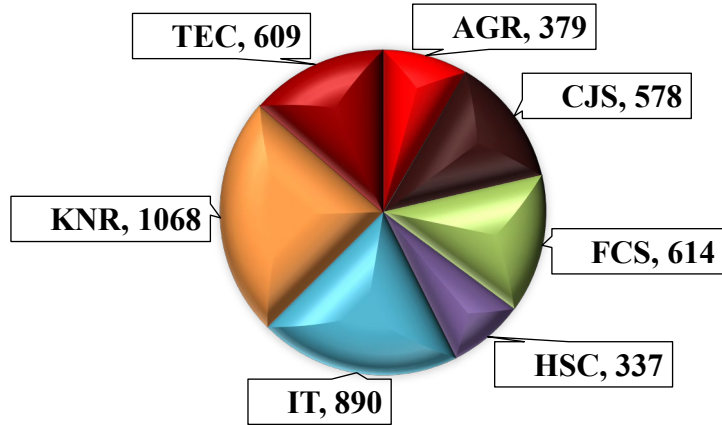
Major accomplishments in Teaching

CAST Enrollment Metrics

In the past five years, CAST’s overall enrollment has largely mirrored the university’s enrollment. During this period, graduate enrollment has increased from 370 to 455, but undergraduate enrollments has declined slightly. Of the 20,233 ISU students enrolled in plans in the Fall of 2021, 4,475 or 22 percent had majors in CAST. During the same period, CAST had 120 tenure track faculty and 179 FTE. This results in a student-to-faculty ratio of 24, compared to the University ratio of 19.

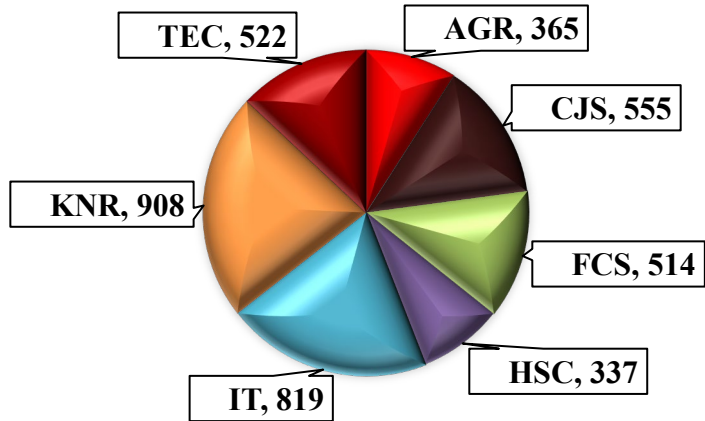
CAST Enrollment, 2017-2021					
	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021
Undergraduate	4,315	4,244	4,117	4,054	4,020
Graduate	370	370	379	435	455
Total	4,685	4,614	4,496	4,489	4,475

CAST Total Enrollment, Fall 2021



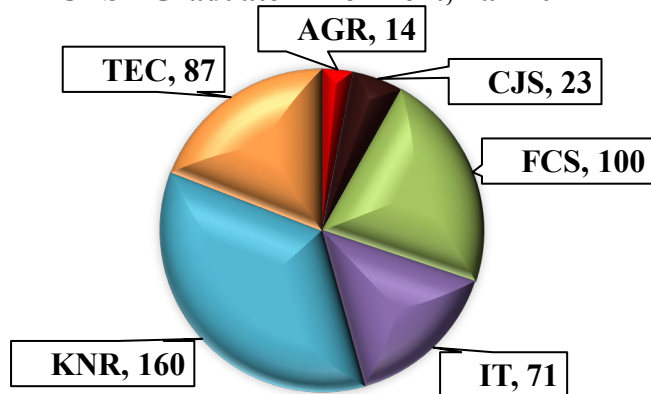
CAST had a total enrollment of 4,475 in fall 2021.

CAST Undergraduate Enrollment, Fall 2021



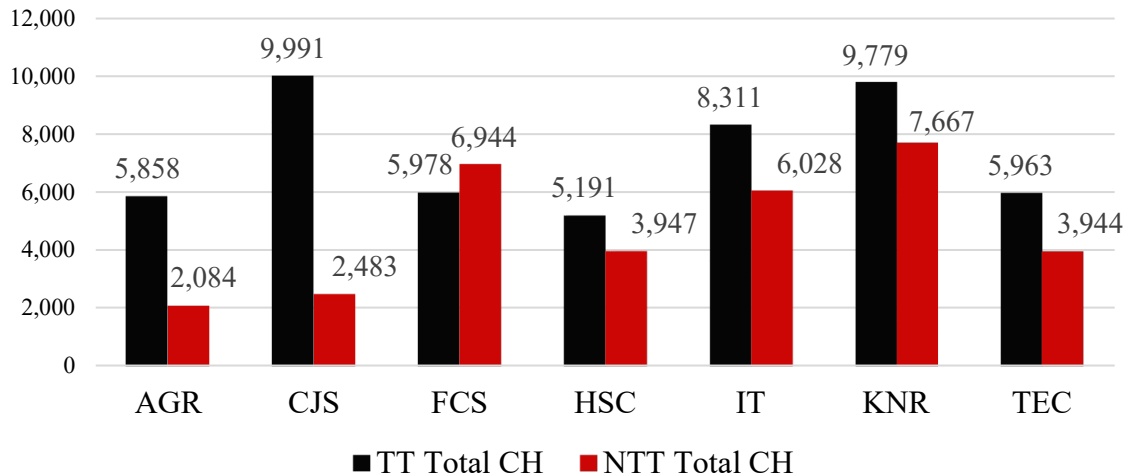
CAST enrolled 4,020 undergraduate students in fall 2021.

CAST Graduate Enrollment, Fall 2021



CAST enrolled 455 graduate students in fall 2021.

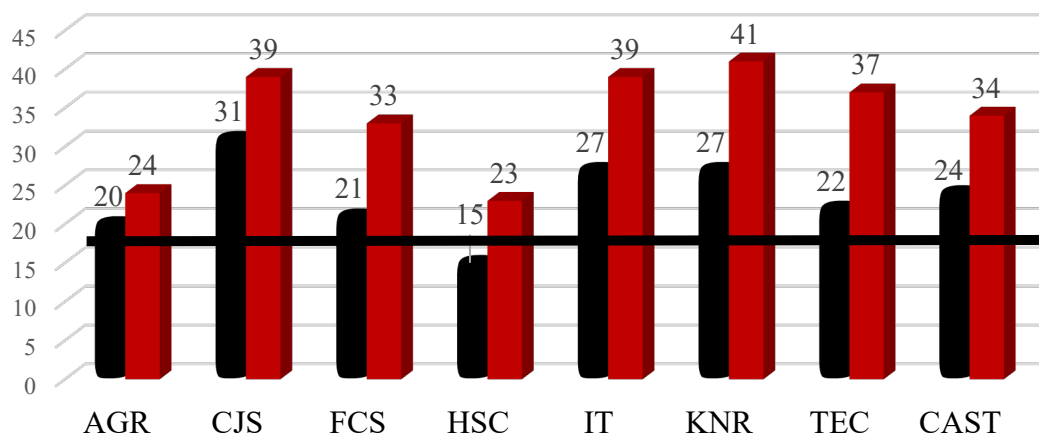
CAST Credit Hours per Unit by TT/NTT



CAST faculty generated 86,668 credit hours during FY21 (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. Looking at the breakdown above, CAST TT Faculty generated 51,071 credit hours, while NTT Faculty generated 33,097 credit hours, with the 2,500 hours remaining attributed to administrative professionals (AP), graduate students, and others providing instruction.

These accomplishments are especially compelling when considering that the ratios for students to faculty are higher than the University target for six of the seven CAST academic units. The CAST average is about 24 students per FTE. For comparison, if we look at the student to tenure-line faculty ratio, these numbers are even higher, ranging from 23 to 41, with a CAST average of 34.

Student to Faculty Ratio, Fall 2021

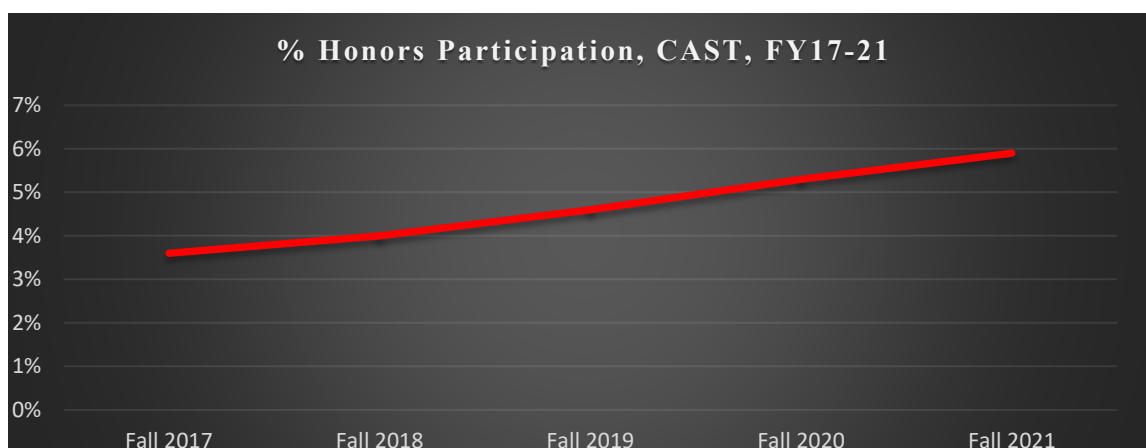


One of the strategies in the CAST strategic plan is to cultivate individualized and transformative educational experiences including internships, study abroad, service-learning, and civic engagement. Most CAST majors complete their degree at Illinois State University with an

internship, providing important opportunities for career exploration, application of classroom learning to professional environments and networking (see table below).

FY22 CAST Professional Practice Data	
Course Number	Number of Students
298	197
398	539
498	180

Due to COVID, many study abroad experiences were canceled in Summer 2021, but we are very excited to have several planned for Summer 2022. We are pleased to note that the percent of CAST students who participate in the Honors Program is steadily increasing over time, from 3.6 percent in fall of 2017 to almost 6 percent in fall 2021. The Department of Criminal Justice Sciences had 26 CJS Honors students this year, which is their highest and double the total from last year.



CAST Academic Excellence

All academic units in CAST utilize the IDEA Student Ratings of Instruction as a partial means 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. One unique aspect of IDEA is that the data collected is centered on student’s perceptions of their progress on relevant learning objectives. Before the survey is administered, the most important learning objectives for the course are chosen by the faculty member and students then rate their progress on those objectives. The IDEA data from fall 2021 suggest that CAST units continue to achieve teaching excellence, exceeding the IDEA database on progress toward relevant outcomes for the courses taught. In the table below please find a comparison of the overall CAST ratings with those of all classes in the IDEA database. These results are in alignment with 18 years of data suggests that teaching effectiveness of CAST compares favorably with the data collected for all institutions that use IDEA.

Overall Outcomes	CAST Score	IDEA Score
Progress on Relevant Objectives	53	49
Excellence of Teacher	52	50
Excellence of Course	52	51
Summary Evaluation	52	50

Departments and Schools in CAST use a variety of additional assessment methods to evaluate teaching. Examples include the review of teaching materials, professional development efforts in 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. We will, however, draw your attention to several award-winning CAST teachers who were honored this year, including:

- Dr. Charles Bell from the Department of Criminal Justice Sciences was named the CAST Outstanding Teaching award winner in the pre-tenure category.
- Mr. Nick Pershey from the Department of Agriculture was named the CAST Outstanding Teacher in the non-tenure track category.
- Dr. Sally Arnett-Hartwick, from the Department of Family and Consumer Sciences was named the National Association for Career and Technical Education Teacher Educator of the Year Award.
- Mr. Victor Gonzalez, Logistical Technician, was selected as Cadet Command's Logistical Technician of the Year.
- Dr. Solomonson, from the Department of Agriculture, received the Illinois Association for Career and Technical Education (IACTE) Teacher Educator of the Year Award.
- Dr. Dave Thomas from the School of Kinesiology and Recreation received the Illinois Association for Health, Physical Education, Recreation, and Dance Student Mentor Award.
- Dr. Jennifer Banning from the Department of Family and Consumer Sciences, Ms. Jenna Rodda and Dominique Hampton (Student) from the Department of Criminal Justice Sciences, and Ms. Sherri Hildebrand, Ms. Lindsey Nicholson and Ms. Daphyne Walker from the School of Kinesiology and Recreation, Alicia Wodika from the Department of Health Sciences and Ms. Ashley Berg and Dr. Joshua Brown, from the Department of Technology received ISU Impact Awards.

In the 2021-2022 academic year, CAST faculty and staff amassed 827 of hours of programming offered by the Center for Teaching, Learning, and Technology. This high level of participation in professional programs offered by the Center for Teaching, Learning, and Technology is indicative of the dedication of our CAST faculty to provide high level classroom experiences to our students.

CAST Teaching Spotlights



Dr. Iuliia Tetteh and four students from the Department of Agriculture attended Illinois Ag Banking Conference in Springfield, IL.

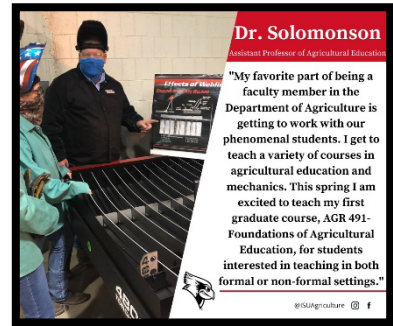


Ms. Ashley Berg and Dr. Josh Brown from the Department of Technology received 2021 Impact Awards.



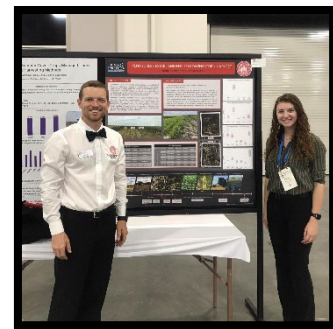
Dr. Arnett-Hartwick, from the Department of Family and Consumer Sciences was the recipient of the Outstanding University Teaching: Tenured Award and the CAST Hall of Fame.

Dr. Jay Solomonson, from the Department of Agriculture, received the Illinois Association for Career and Technical Education (IACTE) Teacher Educator of the Year Award.



Mr. Clint Smith, from the Department of Family and Consumer Sciences was selected as recipient of 2022 Herb Sanders Award for Outstanding Academic Advisement and the CAST Outstanding Administrative Professional Staff Award

Dr. Nicholas Heller and Bethany Wohrley (Rob Rhykerd not pictured) from the Department of Agriculture presenting at the 2021 ASA-CSSA-SSSA International Annual Meeting.



Ms. Daphyne Walker from the School of Kinesiology and Recreation received a University Impact Award.



Major accomplishments in Research

CAST Productivity in Research, Scholarship, and Creative Expression

The table below summarizes the productivity of CAST faculty and staff during 2021-2022 in terms of research, scholarship, and creative expression. 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. CAST faculty and staff made 205 refereed and invited presentations and 49 proceedings, as well as successfully published 145 refereed journal articles, 7 books, 45 abstracts, and 20 book chapters and encyclopedia entries.

Accomplishment	2021-2022
Refereed Manuscripts	145
Books	7
Book Chapters & Misc. publications	20
Published Abstracts	45
Refereed Presentations	174
Invited Presentations	31
Refereed Proceedings	49

CAST faculty members published 217 peer-reviewed outcomes (manuscripts, books, book chapters, published abstracts, etc.) and made 254 peer-reviewed and invited presentations and refereed proceedings. These numbers equate to 3.0 refereed outcomes per full-time faculty member (TT + NTT = 156) or 3.9 outcomes per TT faculty member (120).

CAST External Funding Data				
Dept/School	Submissions		Awards	
	No. of Proposals	Amount Requested	No. of Proposals	Amount Received
Agriculture	9	\$752,583	7	\$294,136
Criminal Justice Sciences	4	\$242,821	2	\$21,688
Family and Consumer Sciences	3	\$81,000	3	\$81,000
Health Sciences	5	\$615,982	1	\$1,915
Information Technology	10	\$818,696	3	\$352,711
Kinesiology and Recreation	3	\$35,829	1	\$2,828
Technology	5	\$9,886,586	3	\$732,024
TOTAL	39	\$12,433,497	20	\$1,486,303

CAST faculty and staff also demonstrated strong productivity in the number and monetary amount of external funding submissions through the Office of Research and Sponsored Programs in the most recent year available; see chart above. CAST faculty and staff submitted 39 grant proposals requesting a total of \$12,433,497. Each of the seven academic units were involved in the submission of external funding proposals. A total of 20 grant proposals were funded for a total of

\$1,486,303. These projects include initiatives funded by the U.S. Department of Agriculture, National Security Agency, National Science Foundation, Illinois Department of Transportation, Illinois State Board of Education, Cotton Incorporated, and OSF Healthcare.

In addition, we will draw your attention to several award-winning CAST scholars who were honored this year with research awards, including:

- Dr. Luke Russell, Department of Family and Consumer Sciences, who was awarded the CAST Outstanding Researcher Award, Pre-Tenure Category, and the University Research Initiative Award.
- Dr. Pranshoo Solanki, Department of Technology, who was awarded the CAST Outstanding Researcher Award, Tenured Category.
- Dr. Brent Teasdale, Department of Criminal Justice Sciences, who was recognized as an ISU University Professor.
- Dr. Nicky Wu, School of Kinesiology and Recreation was runner-up for Best Visual Paper Award at the Travel and Tourism Research Association.

CAST Scholars in the Media



Dr. Shaoen Wu, State Farm Endowed Chair & Professor in the School of Information Technology, received a \$235,521 grant from the NSF.



Dr. Chang Su-Russell, FCS was featured for her work about how parents talk about death, racism with their children.



Dr. Aslihan Spaulding, AGR is part of national team awarded \$10 million USDA grant.



A new book by Dr. Charles Bell, CJS explores cycle of fighting, punishment in public schools.



Dr. Brent Teasdale, CJS was named University Professor.

Dr. David Lane's (CJS) new book, *The Other End of the Needle: Continuity and Change among Tattoo Workers*, focuses on how tattoo artists sustain their world.



Major accomplishments in Service and Civic and Community Engagement



Planting seeds of civic engagement: Horticulture students gain valuable skills through service learning with Dr. David Kopsell, AGR.

Fall 2021: A CJS social justice trip to Germany and Poland offers Illinois State

students the opportunity to reflect on some of history's darkest chapters while broadening their horizons and helping them apply a global perspective to national and local issues.



Wellness plan: Researching how to keep kids healthy. D87 Strengthening School Wellness Environment Project. Joining Jones were Drs. Andrew Eberline and Tyler Kybartas, assistant professors in KNR; Megan Weemer, assistant professor in HSC.

The spring 2022 Campus Hero is Dr. Dawn Beichner, CJS.

Beichner's research interests include victimology, women offenders in the criminal justice system, prisoner reentry, and restorative justice. Beichner was also nominated for the YWCA's Woman of Distinction award.



Dr. Lanier, HSC is a Civic Engagement Award winner from the Center for Civic Engagement.

Dr. Rob Rhykerd and Dr. Nicholas Heller, AGR were featured for their work with Team Pennycress.



Major accomplishments in Academic Program Development

CAST Curriculum and Program Development

Curriculum and program development in CAST is a faculty driven process. The cumulative work of the College Curriculum Committee (CCC) for the past year is listed below. CAST Departments and Schools wrote 9 updates and revisions to their programs (including majors, certificates, and sequences). In addition, CAST faculty authored 22 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 4 courses. CAST reviewed the curricular work for the Master's in Public Health program and the associated course proposals. Finally, CAST was excited to receive approval for the Integrative Health and Wellness sequence in the Department of Health Sciences as well as the School of Information Technology's name change from Network and Telecommunications Management to Computer Networking and the Department of Family and Consumer Sciences name change from Food and Nutrition Management program to Food and Beverage Management.

Curriculum submissions for review	#
New Course	22
Revised Course	4
Change in Requirements for Major	1
Other Program Change	1
Change in Requirements for Sequence	5
Change in Requirements for Certificate	1
Course Deletions	1
New Major	1
Total	36

Several CAST units are undergoing new program development. The Department of Agriculture faculty and staff are exploring new sequences in: Precision Agriculture, Sustainable Food and Bioenergy Production, and Regenerative Agriculture. In addition, they are starting an accelerated master's program. The School of Kinesiology and Recreation accepted its first cohort of students in their Master of Athletic Training Program and developed an eSports class in their Active for Life program. Faculty in the Department of Family and Consumer Sciences and the Department of Criminal Justice Sciences have been reviewing courses for approval for the new IDEAS classification. The Department of Health Sciences faculty are working with an interdisciplinary team to propose a Bachelor of Science in Applied Health Sciences for students who wish to enter a non-clinical health career and are also looking forward to offering their new Integrative Health and Wellness sequence in the fall of 2022. Finally, faculty in the School of Information Technology are developing accelerated master's program in Computer Science.

CAST Accreditations

Another measure of distinctiveness and success of academic program development not captured with the standard measures is the success of CAST with external accreditations. The College maintains 19 program accreditations from 16 distinct accrediting agencies in four departments and two schools. This includes 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, except for CJS, maintains at least one accredited program.

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)	\$2500 annual	2021	2031
FCS	Interior/ Environmental Design	Council for Interior Design Accreditation (CIDA)	\$2200 annual/ \$5400 ongoing	2022	2029
FCS	Food, Nutrition, & Dietetics (DPD)	Accreditation Council for Education in Nutrition and Dietetics (ACEND)	\$2125 annual	2018	2025
FCS	Masters Dietetic Internship	Accreditation Council for Education in Nutrition and Dietetics (ACEND)	\$2125 annual	2018	2025
FCS	ISU Childcare Center	National Association for the Education of Young Children (NAEYC)	\$550 annual	2022	2029
HSC	Medical Laboratory Science	National Accrediting Agency for Clinical Laboratory Sciences	\$2,564 annual	2015	2025
HSC	Public Health	Council on Education for Public Health (CEPH)	\$4,262 annual	2019	2024
HSC	Health Information & Management	Commission on Accreditation of Health Informatics and Information Management Education	\$3,000 annual	2019	2025
HSC	Environmental Health & Sustainability	National Environmental Health Science & Protection Accreditation Council	\$2,400 annual	2018	2025
HSC	Occupational Safety & Health	Accreditation Board for Engineering and Technology	\$1,440 annual	2021	2027

HSC	Integrative Health & Wellness	National Board for Health and Wellness Coaching	\$935 triennial	2020	2023
IT	Computer Science	Accreditation Board for Engineering and Technology	\$2100 annual/ \$8970 ongoing	2021	2027
IT	Information Systems	Accreditation Board for Engineering and Technology	\$2100 annual/ \$8970 ongoing	2021	2027
KNR	Recreation & Parks Admin	National Recreation & Park Association	\$900 annual/ \$1,950 ongoing	2015	2022
KNR	Masters in Athletic Training	Commission on Accreditation of Athletic Training Education	\$5000 annual/ \$5,000 ongoing	2013	2023
TEC	Engineering Technology and Computer Systems Technology	Association of Technology, Management and Applied Engineering	\$2,650 annual	2017	2023
TEC	Construction Management	American Council for Construction Education	\$2,750 annual	2022	2028
TEC	Graphic Communications	Accrediting Council for Collegiate Graphic Communication	\$2,000 annual	2021	2027

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

CAST Program Reviews

The process of program review is also a measure of Academic Program Development as the purpose of program review is to maximize student learning in academic programs by identifying program elements that are working well and merit continuation as well as aspects of a program that can be improved. In fall 2021, the academic programs in the Department of Family and Consumer Sciences (Family and Consumer Sciences, B.A., B.S.; Fashion Design and Merchandising, B.A., B.S.; Food, Nutrition, and Dietetics, B.A., B.S.; Human Development and Family Science, B.A., B.S.; Interior Design, B.A., B.S. and Family and Consumer Sciences, M.A., M.S.) and the School of Information Technology (Computer Science, B.S.; Information Systems, B.S.; Network and Telecommunications Management, B.S.; Information Systems, M.S.) submitted self-study reports for review to the Academic Planning Committee. We look forward to the committee’s determination of program status, identification of exemplary aspects of the program, and recommendations for program improvement later this year.

Major accomplishments in Diversity, Equity, Belongingness, and Inclusivity

Diversity, Equity, Belonging, and Inclusion (DEBI)

The College of Applied Science and Technology's commitment to diversity, equity, belonging, and inclusion is outlined in the CAST Strategic Plan and supports Illinois State University's shared vision for a culture of diversity, inclusion, and equity for all students, faculty, and staff. Since 2016, CAST hosts programming and initiatives entirely focused on becoming a more welcoming space; one that promotes equity, enhances a sense of belonging, increases diversity, and supports inclusivity. Workshops offered each semester and is attended by 40 to 60 faculty and staff members each semester. The evaluations of the workshops have been positive and reinforce the climate change journey that we have taken as a college since 2016. In Fall 2021, CAST faculty and staff attended "Facilitating Dialogue on Controversial Issues," and "Decolonizing Our Classrooms and Course Materials: Part 1 and 2" to explore empathy through a diversity, equity, and inclusion lens. In spring 2022, faculty and staff are invited to attend three different workshops aimed at promoting a welcoming and collegial academic community in CAST, including Becoming an anti-racist educator: Commitment-Change-Sustainability, Exploring and Understanding Allyship, and Understanding and Recognizing Cultural Appropriation. Angell Howard, Associate Director of Professional Development and Staff Recognition for the Division of Student Affairs, has led and facilitated the CAST professional development workshops the past several years and she is a talented, dynamic, and passionate educator.

CAST in Diversity, Equity, Belonging, and Inclusion (DEBI) Committee

In fall 2021, CAST formed a DEBI Committee with 12 members to review the evaluations from the ongoing professional development workshops and to shape future iterative professional development in CAST. The committee's charge is to monitor existing and future initiatives regarding diversity, equity, belonging and inclusion and to advance an anti-racist culture in CAST. In addition, several CAST schools and departments also sponsor committees and events.

CAST Grants for Innovation in Diversity, Equity, Belonging, and Inclusion (DEBI)

In the fall of 2021, CAST allocated \$31,555 to eight CAST teams to support their efforts to act, inform, and/or teach strategies to increase belonging and engagement to marginalized and historically underrepresented groups, increase awareness of appreciation for a diverse and inclusive community, and inform the CAST community on issues of social justice, diversity, and intercultural communication. The following proposals were selected for funding:

- FCS, DEBI Book Club and Department Climate Assessment
- FCS, Recruitment, Retention and Completion of Diverse Students
- IT, Early Redbirds
- IT, Using Information Technology to Foster Diversity, Equity, Belonging, and Inclusion
- KNR, Adaptalooza
- KNR, Celebrates the 50th Anniversary of Title IV with DEI Conference for Students
- KNR, Diversity and Inclusion Committee Book Club
- KNR, The Effect of Institutionalized Barriers on Students Underrepresented in Athletic Training

These projects are underway this spring 2022 semester, with a final report due in July 2022.

Equity, Diversity, and Inclusion Leader's Circle

CAST DEBI committee members attended the Equity, Diversity and Inclusion Leader's Circle Meetings in September 2021 and February 2022, hosted by Doris Houston, Office of the President. The committee was charged with exploring the Pillars of Progress. Starting in fall 2021 and continuing into spring 2022, the CAST DEBI committee met and discussed Pillar 1: Commitment to Care, Respect, Trust and Authentic Relationships, Pillar 4: Value Contributions of Diverse Faculty, Staff, Leaders, and Pillar 6: Inclusive and Equitable Policies, Procedures and Outcomes. We look forward to our continued work with this initiative.



Major accomplishments in Faculty & Staff Success

Mentoring and Professional Development

Ensuring that faculty and staff at all stages of their careers are successful and feel supported in their teaching, scholarly/creative, service, wellbeing, and career advancement/leadership endeavors is fundamental for our college's continued success.

Pre-tenure Faculty

There are several CAST initiatives that use mentoring and professional development to empower CAST faculty. First, the CAST Mentoring Program helps new faculty members to develop a focused record of scholarship early in their career. The CAST Mentoring Program provides a formalized and structured program to assist development as a scholar during a faculty member's pre-tenure years at ISU. Each works with their research mentor, develops a research plan for their probationary period, and attends professional development meetings both as a cohort and one-on-one with the Associate Dean to smooth their first-year transition. In addition, pre-tenure faculty are encouraged to participate in the University's Early Career Professional Development Circle and Faculty Mentoring Network events. Because we did not hire tenure-track faculty this year, we offered additional professional development for midcareer faculty.

Midcareer Faculty

Newly tenured and promoted CAST faculty are invited to participate in midcareer visioning exercises. In the visioning exercise, faculty meet one-on-one with the Associate Dean to discuss their post-tenure plans, brainstorm some strategies for accomplishing them, identify possible challenges, and review opportunities and resources that will be helpful in accomplishing their goals. This individual session was followed-up by a workshop for post-tenure Associate Professors on how to best prepare for the transition from Associate to Full Professor. The panel consisting of Dr. Brent Beggs, Director, KNR; Dr. Marla Reese-Weber, Interim Chair, FCS; Dr. Sally Arnett-Hartwick, Professor, FCS; Dr. Beverly Barham, Professor, HSC; and Dr. Todd McLoda, Dean. CAST addressed the topics of career planning for the post-tenure pathway, promotion materials and timing, and post-tenure research, teaching, and service challenges. The workshop was well-attended, and participants brought great questions.

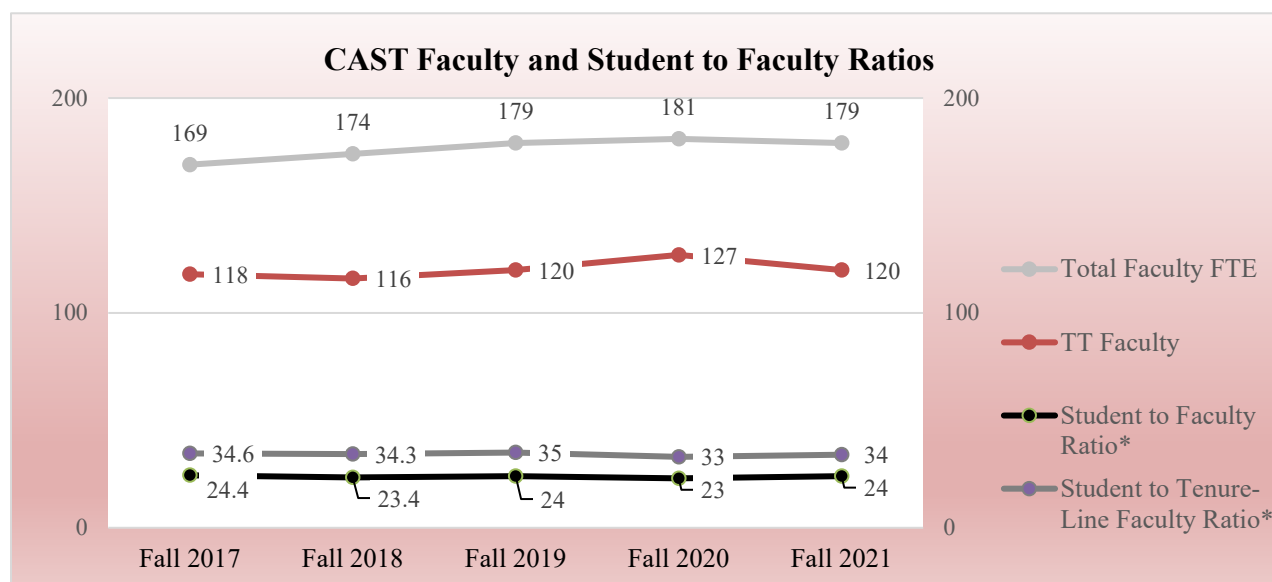
Faculty & Staff Development

All faculty and staff are eligible to receive support from the Faculty/Staff Professional Development Fund to engage in professional development activities that meet their professional goals. Recently, we have increased the support for faculty and staff for professional development and research support. This year CAST allocated almost \$18,000 in professional development funds to CAST faculty and staff (see Table below).

FY22 Faculty & Staff Support	Submissions	Awards Allocated
Publication Incentive	56	\$22,400
Professional Development	12	\$17,873
Presentation Travel	16	\$7,615
Student Travel	11	\$2,750
Page Costs	7	\$1,550
Totals	102	\$52,188

Tenure Track Faculty Recruitment & Retention

In FY22, CAST received the authorization to conduct two Chair searches in Criminal Justice Sciences and Family and Consumer Sciences and nine faculty searches in the areas of Cybersecurity (2), Sport Management (2), Graphic Communications Technology, Crimmigration, Computer Science, FCS Teacher Education and Cybercrime. These represent some of the fastest growing majors in CAST as well as areas that show opportunity for program development and growth. We look forward to welcoming our incoming CAST faculty to campus in August 2022.



In the fall of 2021, CAST celebrated the promotion and tenure of ten faculty members and seven CAST faculty members were promoted to Full Professor. As shown in the table above, tenure track faculty rates have remained steady over the past five years.

Major accomplishments in Student Success

CAST Connections: Customizing Success

CAST Connections is responsible for developing student success initiatives for the College of Applied Science and Technology. CAST Connections creates cross-functional student programs and services that focus on equity, a sense of belonging, wellness, and personal development. CAST Connections is committed to customizing success to ensure students receive individualized attention. Here are a few of the accomplishments of CAST Connections this year:

- In fall 2021, CAST Connections Student Center opened its services and programming to students. During the fall, the Center had 51 direct contacts with students.
- CAST Connections launched individualized student consulting (ISC) as a part of their wrap-around services. ISC provides one-on-one meetings with students seeking partnerships in evaluating and adjusting to academic challenges, students seeking assistance in finding co-curricular opportunities, and students who need help to prepare for life after graduation.
- In spring 2022, in partnership with Beagle Learning Center, the center began running a pilot of the Make IT Matter Program. This student-led social impact program assists undergraduate students in leading the charge to make a difference on a social issue of their choice.
- Personal development workshops for students interested in enhancing specific skills/qualities before graduation were developed for both fall & spring.
- In collaboration with Milner Library, CAST Connections is hosting a week-long spring series (Resource-Rich) (re)connecting students with on-campus resources such as faculty, librarians, researchers, and career services (March 14-18).



Persistence Grants

CAST Persistence grants were founded to address an unmet need for students experiencing food and housing insecurity that led to them not being able to pay their university bills. That often leads to a registration block and some students are forced to drop out to get back on their feet. With support from the Persistence Committee in UCollege, we have provided students almost \$250,000 in Persistence scholarships to students whose graduation goals were blocked by financial obstacles in the past five years: FY19 \$40,000; FY20 \$59,440 (including \$10,000 donated by Country Financial); FY21, \$88,020 (including \$20,000 donated by COUNTRY Financial); FY22, \$30,000 in fall; spring, \$32,500 allocated (including \$12,500 donated by COUNTRY Financial).

CAST CONNECT

CAST Connections with Alumni is an annual event where students meet with alumni to discuss industry trends, interview tips, and problem-solving exercises. This is a great day of mentorship, critical thinking, and problem-solving and networking. This year's focus will be on relationship building, purposeful communication, and mentorship.

CAST Student Success Highlights



CAST Connections' community service project, co-sponsored by Milner Library and the Carle BroMenn Card Ministry.

Bethany Wohrley,
Department of Agriculture
named the ISU Image of
Research – Runner-up
winner.



Environmental health and sustainability students Gabriela Ornelas and Rowan Carroll have been selected as 2021



Association of Environmental Health Academic Programs (AEHAP) Student Research Competition winners.

CAST scholars also worked with undergraduate students through the Undergraduate Research Support Program (URSP), which provides financial support for



faculty-mentored, independent student research projects.

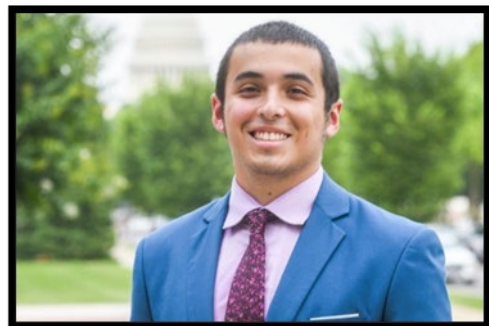
- Gabrielle Goytia, Kinesiology and Recreation, Improving the Health Trajectories of Future Generations, Dr. Dale Brown.
- Jordon Osborne, Alex Diffor, and Jake Weihe, Technology, The Next Generation of Hands-On Learning, Dr. Isaac Chang.
- Evan Hazzard, Information Technology, "Predicting, Preventing and Visualizing Vaccination Deficiency in Illinois with AI," Dr. Shaoen Wu.



Illinois State University construction management students competed in the 2021 Associated Schools of Construction (ASC) Region 3 Preconstruction Competition in Downers Grove October 20-23, 2021.

Christian Arceo,
Criminal Justice

Sciences student excelled during his internship in Washington D.C. in the Summer of 2021.





Illinois State University's Graphic Communications Technology student team placed first in the 2021 Phoenix Challenge competition.

Construction management students placed second in the 2021 Associated Schools of Construction Region III Commercial Construction Competition.



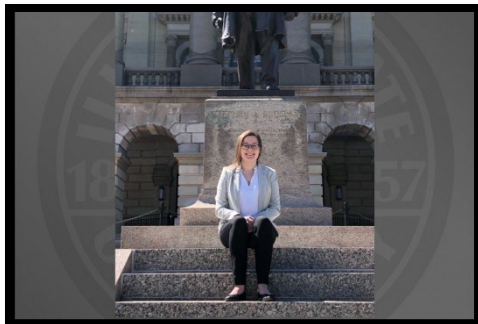
of Construction Region III Commercial Construction Competition.



Military Science Students volunteer at the ISU Homecoming 2021.



Dylan Toth from the Department of Family and Consumer Sciences received the Dr. John T. Goeldi Future Teacher Scholarship and was named a Bone Student Scholar.



Savanah Kinney, an Engineering Technology student from the Department of Technology was named a Bone Student Scholar.

Gamma Phi Circus students performed at Holiday World in Santa Claus, Indiana.



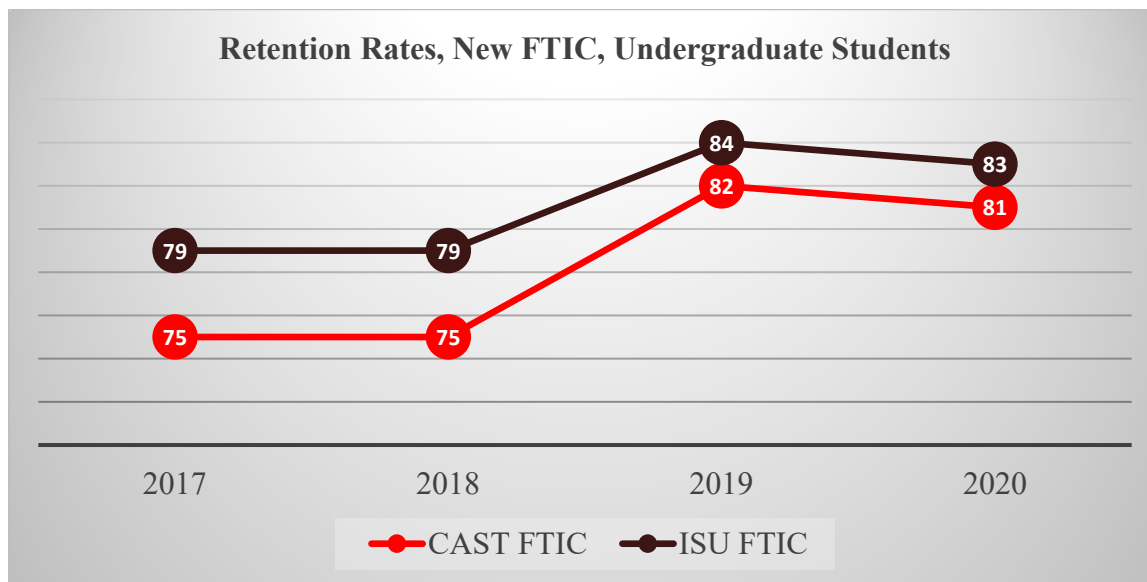
Commissioning is an important event for Illinois State University's Reserve Officers' Training Corp (ROTC) program, which is one of more than 1,700 college and university ROTC programs across the United States. ROTC programs provide a path to school and service.

CAST Student Success Metrics: Recruitment

College	Head count	Attempted hours
CAST	1,288	16,776
CAS	1,622	21,920
COB	988	13,423
MCN	298	3,929.5
WKFA	327	4421.5
Provost	657	8346.5
Total	5858	77,844.5

In fall 2021, CAST recruited 1,288 new students, which represents about 22 percent of the new students that enrolled at ISU. Of the 1,288 students, 652 were first time in college students, 464 were external transfer students, and 172 were degree seeking graduate students. This represents an increase of 67 new students compared to fall 2020. All 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. Several CAST programs are working on targeted recruitment campaigns. For example, the Family and Consumer Sciences department created short videos for their undergraduate and accelerated master’s program to increase their recruitment efforts. In addition, they offered scholarships to potential students in low enrolled programs and created fun competitions for students to engage with a few of their traditionally “found majors.” CAST schools and departments have also used digital marketing to strategically increase their reach to potential students.

CAST Student Success Metrics: Retention

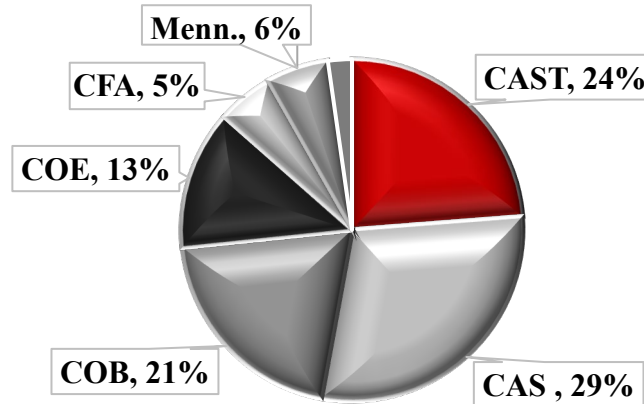


From 2017 to 2021, CAST FTIC retention rates have improved from 75 percent to 81 percent, bringing us closer to the university’s 2021 retention rate of 83 percent. We are excited to report that from 2017 to 2019 CAST retention rates improved for Black/African American students from 66.3 in the 2017 cohort to 77.9 in the 2019 cohort. Improvements in retention rates for CAST Hispanic students also improved during this time frame, from 69 percent in the 2017 cohort to 78

in the 2019 cohort. Like the university, retention rates for all student cohorts decreased for the 2020 cohort, likely due to the devastating impacts of COVID. While the College excels at experiential and applied learning strategies, we lag slightly in FTIC student retention. Our new, college-level Student Success Center called CAST Connections (discussed in greater detail earlier in the report), will address student retention through high impact learning practices aimed at addressing student success, coupled with our ongoing professional development and persistence grants efforts.

CAST Students Success Metrics: Degree Completion

In 2021, CAST conferred 1,050 baccalaureate degrees and 274 graduate degrees. This total of **1,324** Degrees Conferred By College



degrees represents 24% of the University total (5,571; see chart below). Over 69 percent of CAST FTIC students graduate in 4 years or less, which is comparable or slightly better than the university average of 67 percent. In addition, over 76 percent of CAST full-time, external transfer undergraduate students graduate in four years, which is comparable to the university average of 75 percent.

Internal Reallocations and Reorganizations in FY22

- Upon the retirement of Lori Fox from the lead staff role in the CAST Dean’s Office, we launched a search and successfully hired Cindy Greskiwcz.
- After years of planning to launch a student success center within CAST, we launched a national search for a director of the center in summer 2021. We successfully hired Ms. Tamekia Bailey.
- Dr. Marla Reese-Weber (from CAS) continued to serve as Interim Chair in the Department of Family and Consumer Sciences.

FY22 Instructional Capacity Allocations

The table below illustrates how Instructional Capacity expenditures were made in each Department and School in CAST during FY22. The figure for “Allocated in FY22” (\$949,295) includes the general education funding (\$88,166) provided by the Provost’s office. In addition, CAST spent \$50,000 that had been SBC’d and the units spent \$39,761 in local funds to meet the instructional needs of the students. This does not include costs for Full Cost Recovery (FCR) courses. To reduce our SBC CAST units paid \$94,244 in FY22 funds for instruction, including \$425 from CAST (holdback below).

Unit	Allocated in FY22	Holdback
AGR	\$47,398	(\$4,740)
CJS	\$46,474	(\$3,310)
FCS	\$143,876	(\$14,170)
HSC	\$120,074	(\$14,618)
IT	\$257,585	(\$25,110)
KNR	\$139,329	(\$15,507)
TEC	\$194,559	(\$16,364)
TOTAL	\$949,295	(\$94,244)

FY22 Summer Session Funding

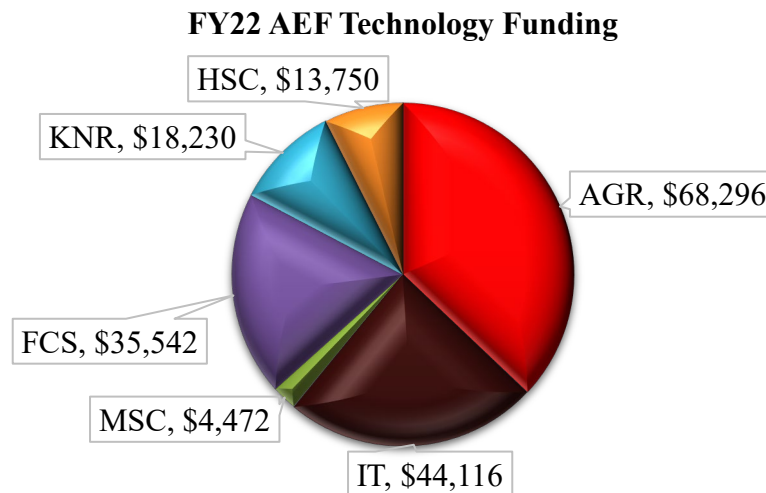
CAST was allocated \$601,216 for summer session funding for Summer 2022 from the Office of the Provost. CAST prioritized summer offerings that supports the timely graduation of our students, including courses that are oversubscribed, have a high graduate student demand, are required internships and professional practices, fulfill AMALI and BS-SMT requirements and support special learning opportunities for students, such as student abroad. The table below shows a breakdown of the allocation to CAST units for summer course offerings.

Summer 2022 Allocation	
AGR	\$50,000
CJS	\$91,000
FCS	\$70,000
HSC	\$90,200
IT	\$100,000
KNR	\$140,016
TEC	\$60,000
Total	\$601,216

FY22 Academic Enhancement Fund (AEF) Projects

- Manufacturing Lab upgrade: CAST and TEC received \$132,302 to renovate the Caterpillar Integrated Manufacturing Laboratory (Turner Hall 160). Updates were made to the ABB robot controllers, Rockwell Automation controllers and safety systems, other essential equipment. Approximately 100 students per year utilize this equipment, primarily in the Engineering Technology program. The update brings the lab to industry standards, and the next generation, of sustainable, smart manufacturing technology. This upgrade also gives students experiences with Industry 4.0 and extended reality technologies used in automotive, packaging, supply chain, electronics assembly, and other digital manufacturing industries. Proficiency in this technology will provide TEC students a competitive edge in the job market as many companies, such as Rivian, are using these same systems. TEC also SBC'd funds to cost share with the Academic Enhancement Funds to upgrade this facility.
- University Farm Connectivity: CAST and AGR received \$342,500 to update its antiquated networking system. These improvements will eventually add connectivity to several identified buildings and provide the foundation for delivering connectivity to additional buildings in the future. The improvements will also provide the opportunity for expanded safety as well as remote learning opportunities for students at the farm that are needed. The project also supports

faculty and student research at the farm that cannot be conducted currently due to lack of support for recording technology for animal science and agronomy data collection. The costs for the project were shared by CAST and AEF and split over 2 years. The initial total estimated project cost was \$498,157 but due to the rising cost of materials in spring 2022, the project has been delayed, until the scope can be re-evaluated. The \$342,500 in AEF funds, as well as \$45,000 that CAST originally SBC'd for the project are being held in a Facilities account during the re-evaluation.



CAST was allocated \$184,406 in Academic Enhancement Funds for technology improvements in the college. Departments and schools have focused on innovative ways to support student success including technology upgrades to classrooms and laboratories, computers, and teaching equipment for labs and training. AGR purchased a grain moisture tester and a virtual welding machine to give their student hands on experiences to prepare them for their future careers. FCS updated lab computers to enable a more advanced course offering a classroom technology improvement as well in their growing Interior Design program. HSC is in the process of creating a a real-time, on-demand learning environment for public and environmental health and occupational safety students and AEF-Tech funds were allocated to improve the connectivity in that lab. IT purchased zero-clients in their labs which provide the needed functionality at a much lower price and updates the classroom technology in one of their often-used classrooms. KNR replaced computers in their McCormick Hall Lab and Military Science updated the technology in their Redbird Range. The breakdown of the distribution to the units is above.

FY22 CAST Foundation

- Total Market Value of CAST Endowment: \$14,653,358.
- FY22 Fundraising to date: \$1,205,308
- Birds Give Back: CAST received \$180,221 from 356 (13 more donors this year). Thank you so much to our generous alumni and friends for their support of our programs in the College of Applied Science and Technology. Because of your gifts, our student persistence fund, which helps students in CAST with financial issues continue their education and stay in school, continues to grow. Scholarships help recruit students to ISU, give financial support and help reduce the debt burdens many students carry. Faculty support allows CAST to recruit and retain the best professors in the field. Thank you!

Highlights



Compeer
Financial
Classroom
at ISU
Farm
ribbon
cutting.

Electrification of Transportation and the Need for Renewable

A Night
with Tesla:
Energy



FY22 CAST Funds – Selected Accomplishments

- Turner 206 lab update. \$43,320.25
This project was funded by a combination of \$43,320.25 CAST funds and \$3,080 AEF-TECH funds. The computers in TUR 206 need recapitalized and updated to be able to handle programs that are used in a new FCS course, FCS: 303 Emerging Technology in Interior Design. This software will better prepare graduates for their careers in our growing Interior Design major.
- CAST Persistence Scholarships. \$62,500 (estimated; including \$12,500 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. CAST distributed over \$30,000 in student scholarships to ensure the success of CAST students in fall 2021 and are planning to award \$32,500 in spring 2022. We are thankful to *COUNTRY Financial* for their generous \$12,500 gift in support of this important work.
- CAST Grants for Innovation in Diversity, Equity, Belonging, and Inclusion (DEBI). \$31,555
In keeping with our commitment outlined in the CAST strategic plan to building an equitable and inclusive community and a culture of collaboration and belonging in the college and university, CAST allocated \$31,555 to eight CAST teams to support their efforts to act, inform, and/or teach strategies to increase belonging and engagement to marginalized and historically underrepresented groups, increase awareness of appreciation for a diverse and inclusive community, and inform the CAST community on issues of social justice, diversity, and intercultural communication.
- IDEA. \$20,810
All academic units in CAST apply the IDEA Student Ratings of Instruction as a partial means 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.

- Farm Truck, \$35,000
CAST purchased a replacement truck for the Farm following the theft of their longtime truck. It was eventually recovered by the police following the theft, but it was totaled due to extensive damage.
- CAST Faculty and Staff Professional Development. \$17,873
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.
- CAST/EHS Severe Storm/Tornado Shelters (2) at the Farm, \$74,203.75
In a cost-sharing project, CAST (\$39,204) and EHS (\$35,000) contracted to have two severe storm/tornado shelters constructed at the ISU Farm in Lexington to ensure the safety to our faculty, students, and staff in the case of severe inclement weather. The shelters will provide safe shelter during farm tours and events, academic activities, and farm operations should severe storms or tornados threaten to impact the Lexington Farm.

CAST Major Objectives for FY23

The College of Applied Sciences and Technology has established 13 objectives for FY23 related to Academic Program Development, Equity, Diversity and Inclusion, Faculty Success, and Student Success that support the CAST Strategic Plan and strategic directions of *Educate • Connect • Elevate*.

Academic Program Development & Enrollment Growth

Supports Goal I of the CAST Strategic Plan and Educate • Connect • Elevate Goals 1, and 2.

1. Provide quality existing programs to students while exploring and developing new programs and courses that provide opportunities for growth of the College.
 - a. Program development opportunities include sequences in Precision Agriculture, Sustainable Food and Bioenergy Production, and Regenerative Agriculture, accelerated master's degree programs in Agriculture and Computer Sciences, a Master of Public Health, and a Bachelor of Science in Applied Health Sciences.
2. Grow CAST enrollment by 155 undergraduate students and 35 graduate students by Fall 2022.
 - a. Undergraduate student growth is targeted in:
 - i. AGR: 25 students; targeted recruitment in the Agribusiness, Horticulture, Pre-Veterinarian, and Animal Science programs.
 - ii. CJS: 20 students; sustained growth in Criminal Justice Sciences.
 - iii. FCS: 15 students; sustained growth in Interior Design; targeted recruitment in Food and Beverage Management, Fashion Design and Merchandising, and Human Development and Family Science.
 - iv. HSC: 25 students; targeted recruitment in Occupational Safety and Health, Environmental Health and Sustainability, Health Promotion and Education, and Health Informatics and Management.
 - v. IT: 20 students; sustained growth in Computer Science and Cybersecurity; targeted growth in Computer Networking and Information Systems.
 - vi. MSC: Sustained enrollment in CAST majors, Criminal Justice Science, Exercise Science, Engineering Technology, and Construction Management; targeted recruitment in Computer Science and Cybersecurity.
 - vii. KNR: 20 students; sustained growth in Exercise Science and Physical Education Teacher Education, targeted growth in Recreation and Park Administration.
 - viii. TEC: 30 students; sustained growth in Engineering Technology, Construction Management, and Graphics Communication; targeted growth in Sustainable and Renewable Energy and Computer Systems Technology.
 - b. Graduate student growth is targeted in the Master of Athletic Training, Master of Sport Management, Master of Computer Science, and Master of Agriculture, as well as accelerated master's degree programs.
3. Enhance facilities to provide access to outstanding technology and learning and research experiences to accommodate growth, including renovated labs and classroom spaces in Interior Design, Graphics Communications, ISU Farm, and Biomechanics, as well as exploring new laboratory and classroom spaces for CJS Forensics and Public Health, through Academic Enhancement Fund requests, RERIP funds, and College and Department/School funds.

Diversity, Equity, Belongingness, and Inclusivity

Supports Goal II of the CAST Strategic Plan and Educate • Connect • Elevate Goals 1 and 3.

4. Recruit and retain a diverse faculty and staff through targeted recruitment and available support programs such as the Faculty Diversity Enhancement and Search Advocacy Programs.
5. Continue to actively recruit and retain diverse, motivated, and academically talented students and support CAST School and Department innovations in recruitment and retention through Provost Innovation and Enhancement Grant submission (PIE) and CAST and Department and School scholarships.
6. Host three DEBI events per semester focused on becoming a more welcoming space; one that promotes equity, enhances a sense of belonging, increases diversity, and supports inclusivity with the guidance of the CAST Diversity, Equity, Belongingness and Inclusion committee, GROWTH leadership, and EDI Leadership Circle.
7. Enhance the sense of belonging for CAST faculty, students, and staff through the CAST mentoring program, personal development opportunities through the faculty/staff professional development fund, and college-wide communications and meetings.

Faculty & Staff Success

Supports Goal II and III of the CAST Strategic Plan and Educate • Connect • Elevate Goals 1 2, 3, and 4.

8. Ensure a successful transition to the College and University by effectively mentoring new faculty, administrative professionals, and civil service staff through participation in the CAST Mentoring program and Midcareer visioning, as well as University's Early Career Professional Development Circle and Faculty Mentoring Network events.
9. Provide support for faculty and staff career advancement, mentorship, recognition, and representation in shared governance through participation in through nominations for faculty and staff recognition and shared governance, increased visibility of faculty and staff contributions through submissions to *Redbird Scholar*, *ForeCAST*, and *Redbird Impact* and through college and university programs such as the CAST professional development and NCFDD-Faculty Success programs.
10. Carefully review COACHE data to identify and initiate change processes to improve employee job satisfaction and retention.

Student Success

Supports Goal I and II of the CAST Strategic Plan and Educate • Connect • Elevate Goals 1, 3, and 4.

11. Enhance the individualized attention for CAST students through increased opportunities for micro-internships, collaborative undergraduate research between faculty and students, and professional conference participation, as well as peer mentoring services, coordinated by the CAST Student Success Center and supported by the Office of Student Research and CAST Student Travel program.
12. Increase retention of FTIC CAST students to 82% through targeted CAST student success initiatives. This represents a two percent increase over the fall 2020 rate of 80%.
13. Increase the 6-year graduation rate of CAST FTIC students to 67% through targeted CAST student success initiatives. This represents a two percent increase over the fall 2015 cohort rate of 65%.

Appendix: CAST Organizational Chart, FY22

