

Johnson County Education & Research Triangle Authority

March 2016 Report

MISSION

To be the model and leader of adaptable, interdisciplinary and innovative education, research and public/private engagement in the Kansas City area, bridging the University with global and local community, government and industry partners.

Message from the Dean & CEO

In the first quarter of 2016, much progress has been made by Kansas State University Olathe in academic program development, collaborative relationships with industry and academic partners and outreach and engagement efforts. The following report outlines key highlights and information for review by the JCERTA.

The focus is on strengthening our existing programs and also ensuring that new and emerging efforts have the resources needed to be successful. One of the most exciting new programs is the Professional Sciences Master's degree program that will launch late this spring, which offers professionals the opportunity to strengthen technical and soft skills. Executive leadership opportunities, related to animal health and engineering, will also be an area of emphasis in our development plans. Teaming with K-State's Department of Hospitality Management, area educational institutions and industry, K-State Olathe will begin educational opportunities to students interested in hospitality management degree. In addition, our strategic efforts related to education for students in grades K-12 is being reinvigorated with additional staff members and resources to ensure that the STEM pipeline can be filled in the future.

Our campus is uniquely capable of fostering the much-needed collaboration between science organizations, businesses and communities to improve quality of life and encourage economic growth. For example, Ceva Biomune is now using lab facilities at K-State to ensure that they continue to grow and produce top quality products. To help facilitate these and other important partnerships, a Director of Strategic Alliances position has been created and a search for this key position is now underway.

As we prepare to celebrate the 5th anniversary of opening our campus, the K-State Olathe team is grateful for the ongoing support of JCERTA. In addition, we will continue moving forward with renewed focus, energy and bringing to bear resources from the entire Kansas State University organization in order to achieve the goals of the JCERTA and the entire Kansas City region.

Thank you,
Dr. Ralph Richardson
Interim Dean and CEO

Personnel Update at K-State Olathe

- **Director of Strategic Alliances** – A search is ongoing for a Director of Strategic Alliances. This position will focus on fostering partnerships with industry and government to develop programs that address workforce development needs, encourage research and promote STEM education.
- **Professor of Practice, Hospitality Management** – A search is currently underway for a Professor of Practice in Hospitality Management. This person will be responsible for implementing and coordinating the expansion of the hospitality management program into the Kansas City market; teaching hospitality management courses; and establishing strong ties with the hospitality industry in the region. The goal is to have this hire in position this summer.

Education and Professional Development Program Highlights

- **K-State Olathe professional development programs (non-credit)**

- In partnership with the K-State Global Food Systems Initiative and Cultivate Kansas City, faculty at K-State Olathe will host the first Urban Food System Symposium on June 22-25. More than 200 national and international academic and research-oriented professionals will gather to share and gain knowledge about urban agricultural production, local food systems distribution, urban farmer education, urban agriculture policy, planning and development, food access and justice, and food sovereignty. More information:
<http://www.urbanfoodsystemssymposium.org/>

- K-12 Outreach:

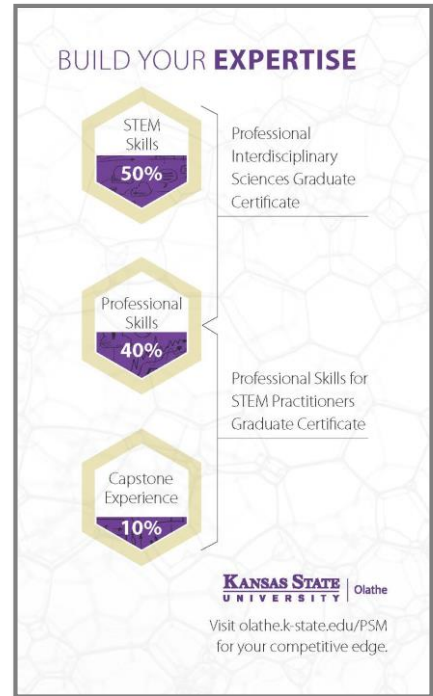
- In the first quarter of 2016, more than 2,200 students and teachers from various school districts were impacted by K-State Olathe's efforts to enhance STEM education experiences for students in grades K-12.
- Some of these engagements included on-site research lab experiences and a veterinary medical lecture series that could be experienced on-site and was also lived streamed to up to 40 schools. Veterinary medical lectures are being held throughout Spring 2016.
- In addition, K-State Olathe partnered with Microsoft Corp. to welcome more than 125 girls in grades 8-12 to campus for a DigiGirlz event. The day spotlighted women in computer science and STEM fields in an effort to encourage high school aged girls to think about careers in the related fields. Students participated in hands-on computer and technology workshops, competed in a "Shark Tank" style wearable gadget pitch session, and visited with K-State Olathe researchers and Microsoft employees.
- This summer Kansas State University Olathe is introducing high school students to the college experience and a growing health initiative. "One Health Summer Online Course 2016" is a free, noncredit, three-week course for high school juniors and seniors interested in the biosciences. The course runs June 1-22 and focuses on One Health— a multidisciplinary health approach in which human health, animal health and the environment are linked and affect each other. It is designed to introduce the students to the One Health concept, related careers and online learning.

- **K-State Olathe academic programs (credit bearing)**

- In January 2015, the Kansas Board of Regents formally approved the new School of Applied and Interdisciplinary Studies at K-State Olathe. The School provides the campus with academic authority under policies and procedures of the University to hire instructors and researchers and develop courses, certificates and degrees. Recently, the School received approval of two graduate certificate programs, including a Professional Interdisciplinary Sciences certificate and a Professional Skills for STEM Practitioners certificate.

- Professional Sciences Master’s Degree – A Professional Sciences Master's (PSM) is an innovative, new graduate degree that has been designed to allow students to pursue advanced training in STEM fields, while simultaneously developing workplace skills that are highly valued by employers.

- Currently, the PSM program is being reviewed by the Kansas Board of Regents (KBOR) and approval is expected in April or May 2016. To date, it has received unanimous approval by KBOR’s Council of Chief Academic Officers and also the Council of Presidents.
- Initial areas of focus for students within the interdisciplinary degree program include animal health and food safety.
- The two graduate certificates that were recently approved give students the ability to build toward earning a PSM.
- A marketing communications campaign has been developed and will be rolled out upon degree approval. In addition, recruitment of students will begin immediately upon KBOR approval, and courses will be available this fall.



- Dr. Deandra Cassone has brought her academic and industry experiences with Industrial and Manufacturing Systems Engineering to the K-State Olathe campus. Besides her teaching duties, Dr. Cassone is working to develop an engineering executive leadership program as well as engaging industry to assist with improving operations.
- Scholarships – In the Fall of 2015, 31 students applied for and were granted scholarships. In comparison, six students received scholarships in the Fall of 2014. Development of a process to increase scholarship opportunities is underway.
- Recruitment of students to study at K-State Olathe continues, and these efforts will be enhanced with more robust marketing and communications support combined with strategic recruitment. The charts below reflect the headcounts and enrollments to date.

ACADEMIC PROGRAMS	UNDUPLICATED HEADCOUNT	CREDIT HOURS
AY 2010-2011	5	10
Summer 2011	5	10
AY 2011-2012	25	63
Summer 2012	25	63
AY 2012-2013	49	334
Fall 2012	23	114

Spring 2013	30	144
Summer 2013	23	76
AY 2013-2014	77	642
Fall 2013	49	315
Spring 2014	55	251
Summer 2014	27	76
AY 2014-2015	126	768
Fall 2014	84	397
Spring 2015	58	250
Summer 2015	41	121
AY 2015-2016	82*	351*
Fall 2015	82	351
Spring 2016	83	395

* Cumulative counts will be finalized at year-end to include spring and summer 2016 enrollments.

Education and Professional Development Program Highlights, continued

PROGRAM COUNTS	AY 2012-2013 (after drops)	AY 2013-2014 (after drops)	AY 2014-2015 (after drops)	Fall 2015 (after drops)	Spring 2016 (after drops)
Agribusiness - Emphasis in Animal Health					
Launched in Fall 2013		11 students 132 credits	16 students 104 credits	10 students 63 credits	10 students 63 students
Food Science					
Launched in Fall 2013		2 students 5 credits	2 students 15 credits	3 students 5 credits	4 students 11 credits
Horticulture - Emphasis in Urban Food Systems					
Launched in Fall 2013		3 students 27 credits	5 students 55 credits	6 students 19 credits	5 students 25 credits
Veterinary Biomedical Sciences					
Launched in Fall 2013		8 students 41 credits	23 students 136 credits	25 students 112 credits	26 students 105 credits
Adult & Continuing Education					
Launched in Spring 2012	19 students 57 credits	50 students 422 credits	78 students 423 credits	36 students 144 credits	27 students 151 credits

Research Highlights

- K-State faculty continue to attract competitive funding and partnerships to support education, research, and outreach in the KC area. Some examples of research are provided below:
 - Identifying a blood disorder may be as easy as running a blood sample from a finger prick under a smartphone. That is the concept behind a new biomedical device being developed by Kansas State University researchers. Kim Plevniak, master's student in biological and agricultural engineering at the Kansas State University Olathe campus, and Mei He, assistant professor of biological and agricultural engineering, are working on a low cost, point-of-care device for home use. The device is made with a 3-D printer and designed to detect anemia for individuals who have limited access to health care, such as those living in developing countries.
 - The Center of Excellence for Food Safety Research in Child Nutrition Programs engaged experts at K-State Olathe to conduct a large cooling study, which is currently underway. Lead in Olathe: Sara Gragg. Collaborators: Bryan Severns, Lindsay Beardall.
 - Dr. Marianne Swaney-Stueve, director of the Sensory and Consumer Research Center at K-State Olathe, is beginning research with children that studies the use of words vs. emojis to identify how they feel about food. Three focus groups have taken place in the Johnson County area.

Engagement, Economic Development, and Other Highlights:

- K-State has hosted a variety of professional development workshops, planning meetings, and events since our last report. Partners include BioKansas, Food and Drug Administration, Kansas City Area Life Sciences Institute, Merck Animal Health, John Deere, Olathe Chamber of Commerce, SmartVet USA, Heritage Tractor, Centaur Animal Health and others. The table below provides the event counts for January, February and March of 2016.

EVENTS AT K-STATE OLATHE	NUMBER OF EVENTS	NUMBER OF ATTENDEES
January 2016	49	1,477
February 2016	40	1,714
March 2016	63	2,267

- The Incubator Kitchen at K-State Olathe continues to provide valuable services to industry.
 - The following companies have recently utilized the incubator facilities and consulting services: Joe’s KC BBQ and Four Paws Solutions (pet treats).
 - The global Petfood Forum is April 18-20 in Kansas City. As part of the forum, K-State Olathe is hosting the Petfood Innovation Workshop: Meat and Novel Proteins on April 18. More than 250 industry contacts will attend the workshop, which will feature hands-on learning and activities, using the test kitchens in the Food Innovation Accelerator at K-State Olathe to showcase the use of novel protein products in pet foods and treats.

- K-State Olathe has invited the Greater Kansas City community to join us at several events, including a Basketball Watch Party, January 26, and a K-State Presidential Social, March 23. In addition, K-State Olathe will be holding an Open House, April 16, which is a great opportunity for everyone to network and learn about K-State and the Olathe campus. The event is being promoted to the entire community, including K-12 educational partners.

Facility Highlights

- The K-State Olathe team continues to explore opportunities for on-site business partners who collaborate with KSU resources, similar to the ongoing relationship with SmartVet and SORA Medical Solutions. Recently, Ceva Biomune, a Lenexa-based animal health vaccine manufacturer, is using lab space for part of its quality control operations.
- In order to continue to be responsible stewards of the K-State Olathe campus and the taxpayers' investment, there is an ongoing commitment to a master plan for preventative maintenance. This fall, improvements were made to parking lots, landscaping and the HVAC system.