

STEM Central

Title III Newsletter

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Title III Year 3 Objectives

Our grant team will begin year three in October 2023:

1. By Fall 2024, at least 95% of faculty and staff participating in Year 3 professional development will demonstrate at least 90% of competencies measured at least 90% of competencies measured by content review.
2. By Fall 2023, at least 12 students will enroll in each of the following: Cybersecurity Program Year 2, Robotics Program Year 1, Crop Production Technology Program Year 1, STEM Online Courses Phase 2, STEM Summer Program Year 3, STEM Tutoring Program Phase 2.
3. By Fall 2024, at least 75% of pilot participants will express satisfaction with each of the following: Cybersecurity Program Year 2, Robotics Program Year 1, Crop Production Technology Program Year 1, STEM Online Courses Phase 2, STEM Summer Program Year 3, STEM Tutoring Program Phase 2.

Our grant year runs from October 1st-September 30th.



GCCC STEM Success Center Completed

The Garden City Community College STEM Success Center houses four new classrooms: a chemistry lab, computer support specialist lab, robotics and mechatronics lab, and a flex classroom for lectures. The addition of these new classrooms allows for each science discipline to have its own dedicated lab spaces stocked with the equipment needed for learning.



Another important design feature of the STEM Success Center are student study and work spaces. The furniture was selected to allow for students to study individually, in small groups, and the group study room provides a place for larger study groups to meet.



STEM Around Campus

A&P Cadaver Lab

Garden City Community College is home to one of only three community college cadaver labs in the state of Kansas, and the only one in southwestern Kansas. The college receives two cadavers per year from KU Med, and each semester students are chosen by Professor Sara Gaut to be on the two cadaver teams.



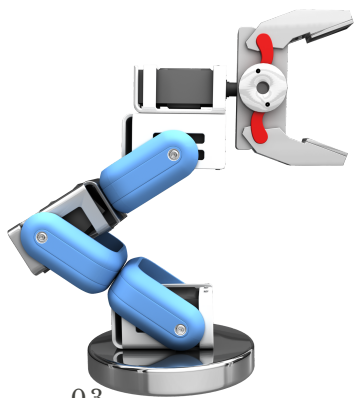
A human cadaver gives GCCC students hands on experience examining the structures/systems of the human body, dissection tools, and dissection techniques. Professor Gaut understands what a unique and valuable experience this is for her students, “The cadavers allow the students to look for the answers. They are working to understand how the donor died, which helps to embed the knowledge in their minds. This journey to discovery provides my students with an experience that is similar to the jobs they will be doing after graduation. This end of life gift that these donors provide for our students cannot be matched.”

Broncbuster Robotics Club

Battle Bots are coming to GCCC

Assistant professor Yuriy Drubinskiy has started a robotics club on campus. This club is open to all GCCC students, and no experience is required to join.

Club members will learn how to utilize essential equipment to design, build, and fight their own robots. This includes staying on budget,



familiarizing themselves with a standard fighting arena, and logistics that come with designing, building, and fighting robots.

Science & Math Club

Have fun with Science and Math

Science and math club is for any GCCC student interested in any math or science area. Nicole Dick, math professor and department chair, will supervise the club.

Science and math club activities include: field trips, experiments, campus-outs, videos, and discussions. Students are welcome to join at any time. Meetings occur every two weeks on Thursdays, in Fouse 1104.



Upcoming Events



SAVE THE DATE

NOV. 8, 2023

Explore the Possibilities at GCCC!

EXPLORATION DAY

For High School Juniors & Seniors

GCCC Exploration Day is Coming to Campus

Exploration Day is a chance for junior and senior students from area high schools to check out various fields of study and discover ALL the POSSIBILITIES that Garden City Community College has to offer.

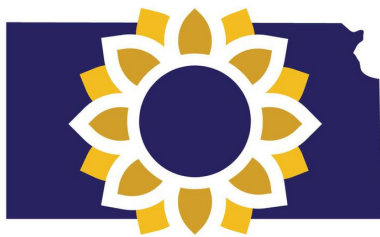
Make sure you plan to attend so you can get a jumpstart on your future plans, because from here, you can go anywhere.



Construction Update

Crop Production Greenhouse

Construction on the state of the art crop production greenhouse is moving along. One of the STEM programs currently in development on campus is Crop Production Technology. The greenhouse will allow crop production students access to growing crops all year long, which allows them to research how to increase production, soil management, disease/pest prevention, and simulate growing conditions. The Crop Production Technology program will have multiple degree and certificate programs to meet the needs of agricultural students and the industry.



KANSAS PROMISE SCHOLARSHIP @GCCC

Which GCCC Programs are Eligible?

- Carpentry (C)
- Certified Medication Aide
- Certified Nurse Aide
- Computer Information Systems (AS, 2+2 FHSU)
- Computer Support Specialist (C)
- Criminal Justice/Police Science (C, AS, AAS)
- Early Childhood Education (C)
- Early Childhood Unified (AS, 2+2 FHSU)
- Elementary Education (AS, 2+2 FHSU, KSU)
- Emergency Medical Technical Technology (AAS)
- Emergency Medical Technician
- Fire Science (C, AAS)
- Home Health Aide
- Industrial Machine Mechanic (C, AAS)
- Licensed Practical Nursing (C)
- Mathematics & Secondary Education (AS, 2+2 FHSU)
- Paramedic (C)
- Pre-Engineering (AS)
- Pre-Health Occupations (AS)
- Registered Nursing (AS, AAS)
- Secondary Education (AS, 2+2 FHSU)
- Social Work (AS, 2+2 FHSU, KSU)
- Technology Leadership (AS, 2+2 FHSU)
- Welding Technology (C, AAS)

AAS - Associate in Applied Science

AS - Associate in Science

C - Certificate

Dreaming of a
STEM career?

The Kansas
Promise
Scholarship
@ GCCC can
help turn your
dreams into
reality!



Who is Eligible?

- Be a United States citizen and Kansas resident;
- AND**
- Have graduated from a secondary school within the preceding 12 months or have attended a secondary school and obtained an equivalent credential within the preceding 12 months;
- OR**
- Be Kansas resident for the preceding three consecutive years;
- OR**
- Be a dependent child of a military servicemember permanently stationed in another state and who, within the preceding 12 months, graduated from any out-of-state secondary school or obtained a high school equivalency;
- OR**
- Was in the custody of the KS Department of Children and Families at any time during grades 9-12

Income Requirements

\$100,000
or less for
a family of
Two

\$150,000
or less for
a family of
Three

AND
\$150,000 + \$4,800
per additional family
member beyond three

APPLY
for
admission
to
GCCC



apply
ONLINE

COMPLETE
Kansas
Promise Act
SCHOLARSHIP
APPLICATION



Download
application
HERE

COMPLETE FAFSFA

(FREE Federal
Student Aid)
This is required even if you
don't qualify for or take
any additional loans.



If you need assistance
completing your FAFSFA, contact
GCCC Financial Aid
finaid@gccccks.edu
620-276-9519

**Failure to fulfill obligations will result in repayment of full scholarship amount plus interest.
The interest rate is the current rate of the PLUS loan at the time you are awarded the scholarship.*



New Instructor Position Available

Crop Production Instructor

Garden City Community College's Technical Education division seeks an experienced agriculture professional who is passionate about helping students further their educational and career goals. This is a full-time 172-day contract position under the direction of the Dean of Technical Education. The primary assignment is to provide instructional services and learning facilitation for students in the Technical Education Division by teaching a variety of agriculture and crop production related courses.

Click [here](#) to apply!

STEM Faculty Position Available

Physics/Physical Science Faculty

This position is designed to both strengthen the College's commitment to STEM pathways for students as well as pursue growth opportunities in engineering and robotics. The successful applicant will teach both general education courses to the student population at large as well as courses in physics, physical science, and/or engineering transfer courses (including robotics/mechatronics) for Science majors. Applicants with appropriate graduate-level degrees and experience teaching physics, physical science, and/or robotics will be considered, especially experience teaching at the community college level in diverse student environments (academic preparation, gender, age, race/ethnicity, socioeconomic status, sexual orientation, etc.). Additionally, applicants with demonstrated experience in growing programs and attracting students to STEM education through high-quality, dynamic teaching and recruiting will be considered.

Click [here](#) to apply!



Allied Health Position Available

Allied Health Program Coordinator

Garden City Community College's Allied Health program seeks an experienced allied health or medical professional who is passionate about helping students further their educational and career goals. This is a full-time, instructional staff position under the direction of the Dean of Technical Education. The primary assignment is to provide instructional services and learning facilitation for students in the Allied Health program by teaching a variety of allied health and medical assistant related courses.

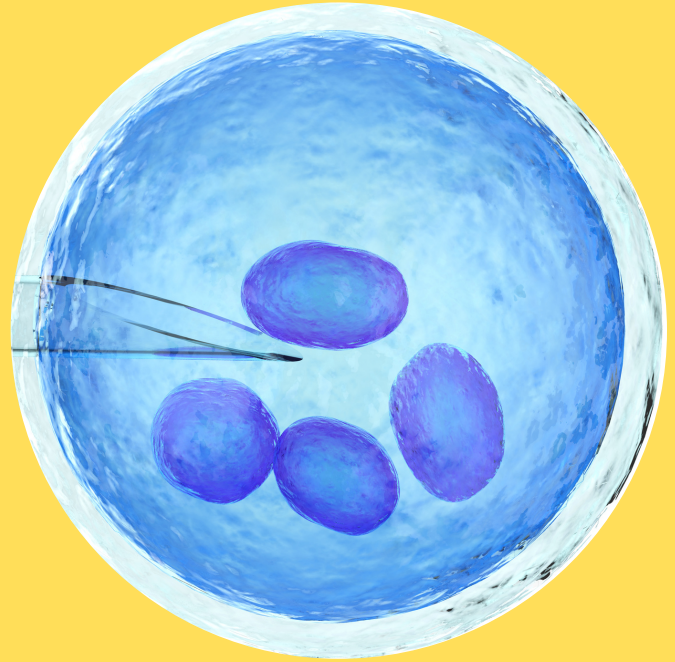
Click [here](#) to apply!

Global STEM News

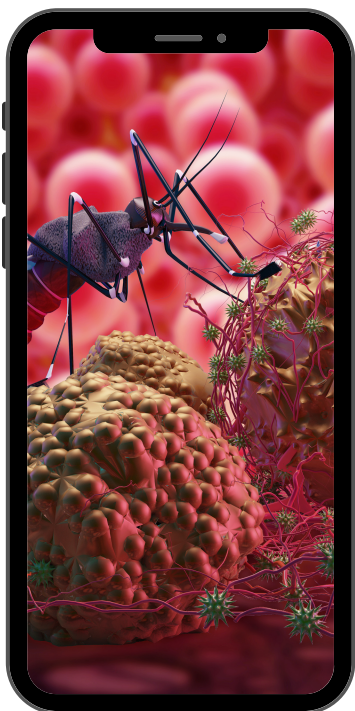
"Synthetic Mouse Embryos Grown from Stem Cells: Advancements, Implications, and Future Prospects"

Researchers at the Weizmann Institute of Science have achieved a significant breakthrough by cultivating synthetic mouse embryos solely from stem cells within a bioreactor, eliminating the need for conventional fertilization. These artificially created embryos exhibited the development of various organ structures and functions, such as neural tubes and beating hearts, shedding light on early embryonic growth and its potential applications in understanding mutations and related diseases. The success of generating synthetic embryos from stem cells poses ethical and scientific questions about the potential creation of other animals, even humans, through similar methods. Furthermore, this achievement holds promise for personalized organ production, offering a future avenue for medical treatments using a patient's

own cells to generate transplantable organs. A new company, Renewal Bio, has emerged to explore the transformative possibilities of this technology in healthcare.



Click [here](#) for the full article featured on STAT News.



Local STEM News

West Nile Virus Cases in Horses Reported Across Multiple Kansas Counties

The Kansas Department of Agriculture has identified cases of West Nile Virus in horses across four counties: Barber, Butler, Douglas, and Pratt. The increase in cases aligns with the usual pattern of West Nile Virus incidents during late summer and early fall. Equine Practitioner Veterinarian Dr. James Speer noted that the current season's number of cases is consistent with past yearly outbreaks of the virus. Symptoms in horses start with flu-like signs such as fever and loss of appetite, progressing to neurological issues like stumbling and loss of coordination. Vaccination remains the most effective preventive measure advised by veterinarians to ensure horse health during the West Nile season.

Click [here](#) for the full story featured on KWCH.com.

Meet Our Staff

Shellie Emahizer

Nursing Instructor

Shellie graduated from Garden City Community College with AS/RN in 1995. In 2010 she graduated with her BSN from Southwestern College out of Winfield, Kansas. She then graduated with her MSN with an emphasis in Administration and Leadership in 2017 from Aspen University, Denver, Colorado.

Having worked in various areas in health care for over 20 years, Shellie now enjoys sharing her love of nursing with the next generation of nurses.



Dr. Clint Alexander

Animal Science Instructor/Meat Judging Coach

Dr. Alexander started at Garden City Community College in August of 2000. During his tenure, he has assisted in acquiring several grant funding opportunities including building the GCCC Meat Lab, which opened in August of 2013. Over the last couple of years, the departments' online program has become the largest food science and safety provider in the country to the USDA-FSIS. He is HACCP certified by the International HACCP Alliance, including instructor and program status approval, and BQA Certified. He brings a broad knowledge of agriculture and the livestock industry to this department with his education and industry experiences. His meat judging teams have won six National Championships (2003, 2013, 2014, 2015, 2017, 2020), seven Reserve National Championships (2001, 2004, 2005, 2009, 2011, 2018, 2019), the Australian Championship (2014), and has coached 33 All-Americans in meat judging since 2002.

