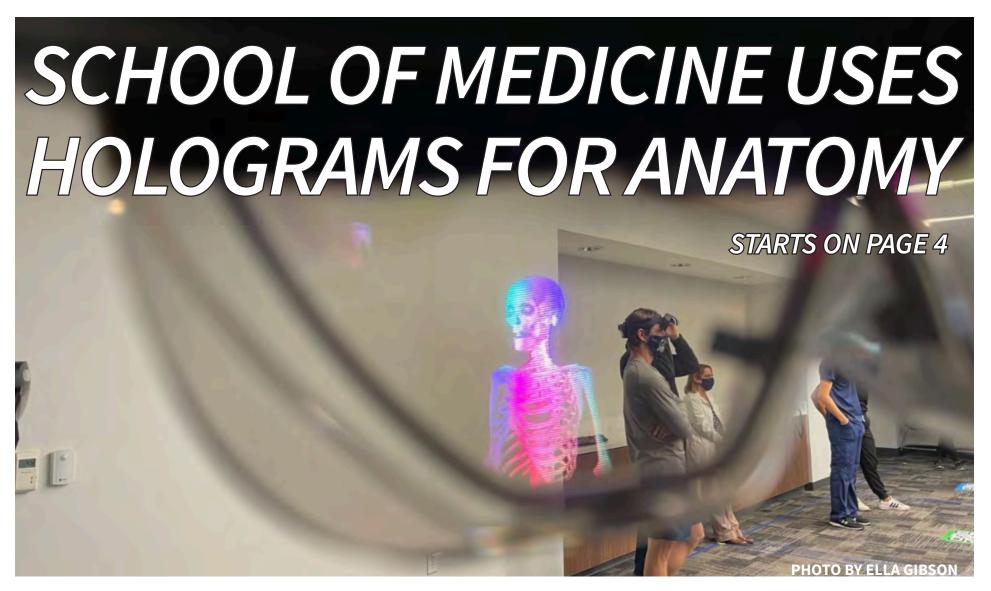




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BASKETBALL LOSES
BACK-TO-BACK GAME
TUESDAY NIGHT FOR
THE FIRST TIME THIS
SEASON

A STUDENT MEDIA PUBLICATION OF TEXAS CHRISTIAN UNIVERSITY

FORT WORTH, TEXAS



NEW ART EXHIBIT

Artist captures economic debate of pandemic using pennies

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STAYING CONNECTED

TheCrew changes tactics to keep students engaged

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CAMPUS NEWS

TheCrew connects with students despite pandemic hardships

By BREANA ADAMS

STAFF WRITER, TCU 360

The pandemic challenged the Crew's mission of promoting student activities and engagement. Five semesters later, its members have created new ways to connect with students.

"theCrew's job is to meet students where they are," Director Olivia Fannon said. "It is our role to be the community that students need."

theCrew puts on activities that are both educational and entertaining. Last month, its "Hive" event combined its mission of engagement with a lesson on the importance of bees.

The event emphasized the importance of bee conservation through infographics, explaining how honey bee depopulation affects not just the environment, but people as well.

Students snacked on honey-flavored treats and played interactive games such as Buzzer Bee-ter, an arcade basketball game, and Honeybee Tree, an action game where players try not to disturb the sleeping bees.

The Hive event included personal interaction between the Crew and students, but for much of the pandemic, the Crew was limited in how it could engage with students.

Since the fall of 2020, a majority of the Crew's events have been in person; however, the interaction with students was limited. Between social distancing and restrictions on indoor



PHOTO COURTESY OF THECREW

TCU students Porter Maggiore and Rebecca Thompson showcasing CrewKits that are available to the student body.

events, the organization could not connect as it did in the past.

"Last year was a big blow to us," Rebecca Thompson, director of marketing for the Crew, said. "The goal is to give students experiences on campus, so we created 'CrewKits' to give to students so that they could do activities in their room or with their roommates."

The CrewKits helped the organization engage with students, especially first-year students wanting to make new connections. theCrew hosted tabling events for students to pick up the kits and take them back to their dorm rooms.

This semester, theCrew has shifted toward more in-person events, but not all things are back to normal, Fannon said.

"After the pandemic, reaching out to students has been both easier and harder. There are students who are eager to meet new people and try new things, and there are students who are weary of such experiences," Fannon said.

To accommodate students' preferences, the organization puts on a variety of events, which still include the option to grab and enjoy CrewKits. Some events were strictly virtual like watch parties and Zoom get-togethers.

Even with a mostly virtual 2020 school year, theCrew experienced a higher turnout to events than they anticipated. Students were eager for interactions, engagement and experiences.

Following the Crew Hive event, the organization hosted a clothing drive for students to donate old winter clothes to the Presbyterian Night Shelter and a makeshift build a bear workshop for students to make their own stuffed animals.

To join the Crew, students can attend a meeting on the third floor of the BLUU on Monday nights at 8 p.m.

theCrew hosts weekly events every Tuesday and Thursday, so to be on the lookout for their next event, follow their Instagram account at @ thecrew_tcu.



The Skiff

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COMMUNITY

Artist at the Modern Art Museum uses pennies to reflect on the pandemic

By EMMA WATSON

STAFF WRITER, TCU 360

Glass pennies glow in a darkened room. A chest X-ray reveals a penny-sized shape in the stomach of a young boy. A bulging bag of pennies sits in the middle of the room.

Pennies are the heart of an exhibit at the Modern Art Museum of Fort Worth. Conceived by Brooklyn-based artist Jill Magid, "Tender" is meant to capture the economic debate of the pandemic.

Magid's work involves, "the importance of the economy versus the importance of human life in the age of COVID-19," said Kendal Smith Lake, director of communications at the Modern.

The exhibition highlights the pandemic's effect on essential businesses, people and the economy. Magid, "disseminated 120,000 newly minted 2020 U.S. pennies [...] into the American economy via bodegas throughout New York City," said Alison Hearst, an associate curator at the Modern. These 120,000 pennies are equal to the amount of one stimulus relief check.

The exhibition also includes fresh flowers which fall under agricultural work and were therefore deemed essential, said Hearst.

The work is part of the

FOCUS series, which includes three 10-week exhibitions each year. One of the three will be considered for the Modern's permanent collection.

The pennies circulated throughout the economy and individuals, much like COVID-19 itself. Each penny was engraved with the phrase, "the body was already so fragile."

Now, those pennies are displayed in a U.S. Mint bag in Magid's exhibition at the Modern. The exhibition also includes a chest X-ray of the artist's son with a swallowed penny and glass pennies glowing under a blacklight.

In the next room, rows of fresh flowers represent the New York City bodegas where the pennies were dispersed.

Behind the flowers are large, hand-drawn presidential documents representing those published on Labor Day in 2020 and 2021.

"The use of materials Jill uses for her works – including pennies, glass coins, the X-ray and flowers – are all types of artistic media we haven't shown in the galleries before," said Hearst.

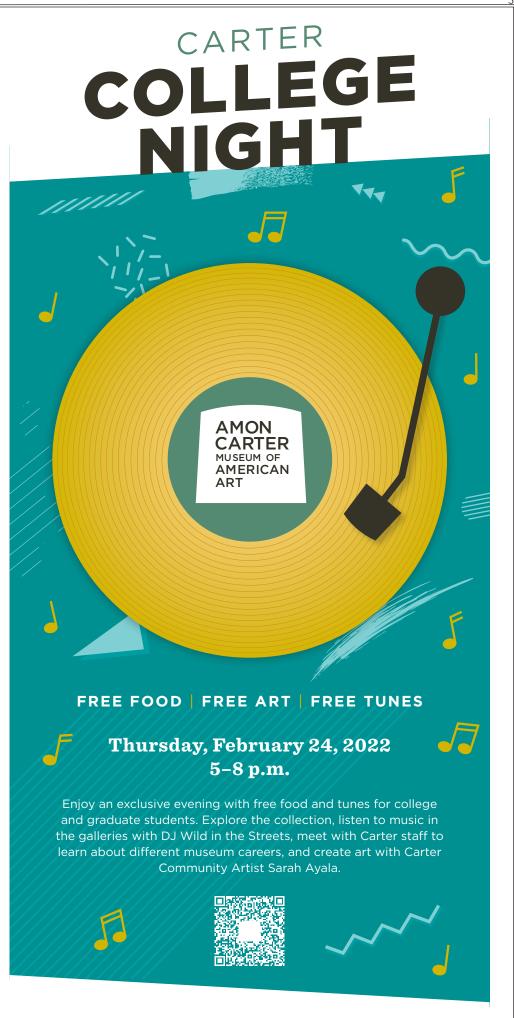
Hearst said this is the first exhibition at the Modern that reflects on the pandemic.

Magid's exhibition is on display until March 20.



PHOTO BY EMMA WATSON

This U.S. Mint bag is filled with pennies that circulated in New York during the pandemic.



CAMPUS FEATURE

The TCU School of Medicine is using holograms to study anatomy

By ELLA GIBSON

STAFF WRITER, TCU 360

The classroom is empty as the 20 first-year students file in, dropping their backpacks at the

They scatter throughout the room and wait for instruction.

Blue tape divides the gray patterned carpet into 10 squares; each about eight feet across. There's a large paper QR code in the middle of each square.

In this anatomy lab, students will wear a headset instead of gloves.

They pair off and stand within a square.

Gasps erupt throughout the room as they pull the goggles over their eyes: A life-sized holographic skeleton hovers over the floor.

Some students move their heads in circles, testing the technology; others reach out to try to touch the projection.

A student lies on the ground, questioning if what he is seeing is real.

Virtual anatomy learning

This is how the TCU School of Medicine teaches anatomy. The school uses HoloAnatomy software in addition to dissection labs to teach its students anatomy structures by way of interactive holograms. The school is one of the first medical institutions to use augmented reality and is witnessing firsthand how the technology transforms the classroom.

Since its establishment in 2019, the medical school has focused on "inspiring the physicians of tomorrow." Through innovative instruction techniques, the first classes of medical students are learning by doing.

HoloAnatomy software was implemented at TCU in 2020 and plays an integral part in the school's interactive curriculum. The school serves as a test subject for the effectiveness of the system.

Microsoft HoloLens is a mixed reality headset developed by Microsoft and initially released in March 2016. The "smart glasses," including the succeeding HoloLens 2, work under the Windows 10 operating system.

Mixed reality technology interacts with surrounding walls, people and objects to allow users to experience the real and virtual world simultaneously. HoloLens headsets contain environment sensors and an inertial measurement unit to accomplish a mixed reality perspective. Additionally, the glasses use gaze, gestures and voice inputs that allow users to interact with virtual elements.

The HoloAnatomy Software Suite was developed by Case Western Reserve University and began testing in 2016. The university created the HoloLens technology while building a new campus, and saw an opportunity to supplement their cadaver lab. The software was developed through 2019 as the university tested the incorporation of their anatomy curriculum with the technology.

In a Microsoft Customer Story, Mark Griswold, a professor at Case Western in the radiology department, said many professors were skeptical at the introduction of the software.

"'We got some of the first HoloLenses available,' says Dr. Griswold, 'and we sent an email out to anatomists to see if they wanted to check this out. We received many messages back that just said 'no' because they didn't think it was possible."

Many professors came to support the system after initial testing proved to be successful. One of the most demanding tests was during the onset of COVID-19 in 2020.

When Case Western shifted classes online. the university shipped 97 HoloLens headsets to each of its anatomy students in order to hold a remote mixed reality class.

While at home, students could navigate the software and learn as though they were in the classroom.

A student trial from Case Western showed the HoloAnatomy software improved test scores and classroom performance. Students using HoloAnatomy improved



PHOTO BY ELLA GIBSON

HoleLens goggles used for the HoloAnatomy software at TCU and UNTHSC School of Medicine.

by 50% on retention tests.

The scientific community has recognized the technology with top awards, including a victory in the "Virtual Reality and Augmented Reality" category at the Jackson Hole Science Media Awards in 2016.

Learning the software

The TCU School of Medicine received HoloLens headsets during the onset of the COVID-19 pandemic and had to store them for a year until students were back in the classroom.

At the return of in-person classes, Jonathan Babirak, a mixed reality specialist at the medical school, worked with professors to create "glorified PowerPoints" using HoloAnatomy.

Professors went through basic training provided by Case Western but had to adapt the software to meet their instruction goals.

Prasanna Abeyrathna, an assistant professor at the TCU School of Medicine, explained anatomy professors are often resistant to making their lessons virtual.

"There are certain times that cadaver works better, and there are certain times when virtual works better, or augmented reality works better, so I think if you go past that preconception, vou can do a better job at teaching," said Abeyrathna.

Between 10 and 15 faculty members at the school have now been trained to use the software.

The virtual classroom

The HoloAnatomy application is cloudbased, so PowerPoint slides are sent to the server and accessed by headsets, then projected using QR codes on the ground.

Within the classroom are 11 "pods," or squares, each with an assigned QR code. Two students stand within each pod, wearing corresponding headsets.

Though each QR code projects its own set of holograms, they all link back to the instructor.

Anything seen on the faculty member's headset is viewed by the class. Students examine each set of slides and holograms

CONTINUED ON PAGE 5



PHOTO ELLA GIBSON

Prasanna Abeyrathna instructs a class of first-year medical students using HoloAnatomy software. The holograms can be seen by looking at the QR codes with HoloLens goggles on.

CONTINUED FROM PAGE 4

as the instructor moves through the lesson.

The hologram

The main hologram in each pod is suspended about three feet above the floor. The projection shifts based on what the instructor sees.

When the headsets are a few inches from the projection, bones, organs and other systems peel back in order for students to observe the interior makeup of structures.

Holograms are color-coded based on the focus of the lesson. Isabella Amado, a first-year medical student, explained the effectiveness of this tool.

"In the cadaver lab, where everything is the same color, it's hard to visualize, so I think that this is a good way to see everything," said Amado. "Honestly my favorite part was how many different structures you can see and how selective you can be."

PowerPoint slides project at the edge of the pod to correspond with each hologram. Slides display supporting information and cadaveric images.

Using a zoom circle tool, the instructor can select an area of the structure to be projected on a larger, adjustable scale.

Kevin Chao, a first-year medical student at TCU, emphasized the aspects of HoloAnatomy that differ from traditional anatomy lessons.

"Being able to see things 3D instead of 2D is really helpful in anatomy. Being able to zoom in and out, being able to look around the body with a 360 view, it's totally different," said Chao.

An innovative curriculum

The TCU School of Medicine integrates HoloAnatomy software into its unconventional curriculum.

Each week, students learn about structures that make up a specific area of the body. The HoloAnatomy lab takes place at the beginning of the week, introducing students to the anatomy that they will be focusing on during the week's "bootcamp."

Students later attend a cadaver lab, where they examine physical examples of structures.



PHOTO COURTESY OF JONATHAN BABIRAK

Kevin Chao examines holographic anatomy structures of the head and neck with accompanying Power-Point slides. A zoom circle set by the professor displays a close-up view of the structures to the left.

Some weeks, instruction only includes a HoloLens lab. Other times, virtual and cadaver labs take place on the same day.

HoloAnatomy often saves time by way of clean and interactive models. Students can work with structures that get damaged by cadaveric dissecting.

Additionally, professors can simplify models to create a base for understanding. This foundation is accelerating students toward greater success in the classroom.

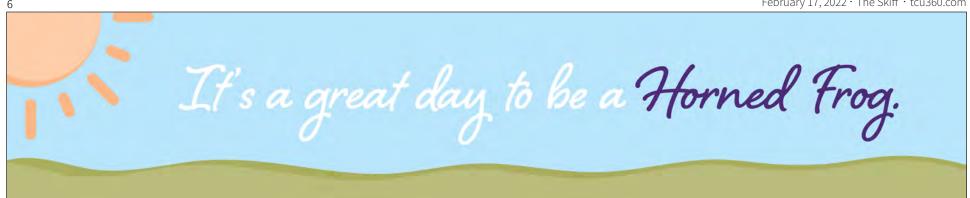
As one of the first schools to use HoloAnatomy, the TCU School of Medicine is leading a movement of virtual anatomy and improving holographic software for future institutions.



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The New Hork Times Edited by Will Shortz

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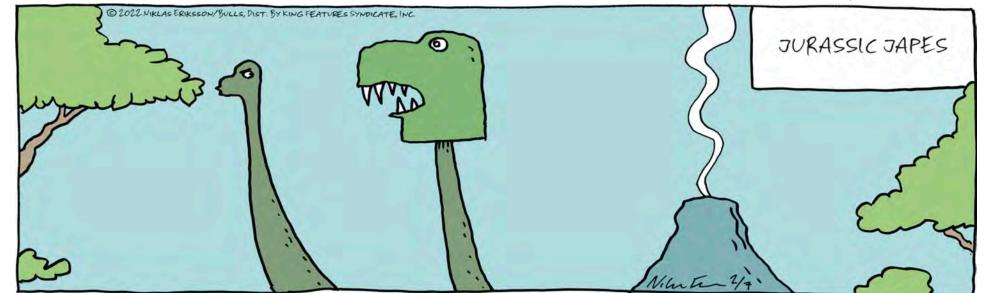
Carpe Diem by Niklas Eriksson

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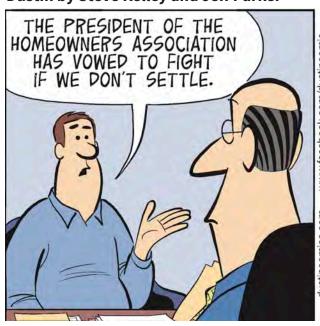


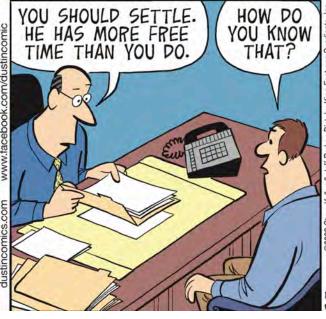
All TCU. All the time.

tcu360.com



Dustin by Steve Kelley and Jeff Parker







Horoscope

The Stars Show the Kind of Day You'll Have: 5-Dynamic; 4-Positive; 3-Average; 2-So-so; 1-Difficult

ARIES (March 21-April 19)

★★★★ This is a good day
for financial negotiations
or to ask for a raise or see
ways to boost your income.
Nevertheless, something
unexpected will surprise you.
It might be a wonderful boon.
(You might find money; you
might lose money.) Tonight: A
squeeze play.

TAURUS (April 20-May 20)

★★★★ Today the Moon
is in your sign dancing with
both Jupiter and Venus,
which makes you joyful and
charming. It's a happy day
for you! It's also an exciting
day. You feel impulsive
and tempted to act rashly.
Tonight: Blocked by rules.

GEMINI (May 21-June 20)
★★★★ This is a restless day; however, it's also a happy day. You might receive a favor from someone. Your partner might get a bonus or some good fortune that reflects indirectly on you. Bosses and authority figures approve of you today. Tonight: You might be discouraged.

CANCER (June 21-July 22)

★★★★ This is a popular
day! Enjoy the company of
clubs and organizations. It's a
good day to think about your
goals because your optimism
will help you dream big. A
friend might surprise you
today. Tonight: Something
difficult.

LEO (July 23-Aug. 22)
★★★★ Today you are
high-viz. People admire you.
They see you as affluent,
successful and charming.
Nevertheless, surprise news
from a parent, a boss or

someone in a position of authority might catch you off guard. Tonight: Blocked by authority.

VIRGO (Aug. 23-Sept. 22)

★★★★ Travel plans
are exciting for many of
you today. Nevertheless,
travel plans might change.
Some will be surprised at
the opportunity to travel.
Likewise, you might learn
something new that broadens
your experience. Tonight:
Approval is denied.

LIBRA (Sept. 23-Oct. 22)

★★★★ A surprise might be related to bank accounts or money from the government today. Stay on top of things so you're in the know.

Meanwhile, perhaps your surprise is an unexpected gift or an opportunity. Be alert. (The world needs more lerts.)

Tonight: Check your finances.

SCORPIO (Oct. 23-Nov. 21)
★★★ This is a charming day
to deal with others because
you feel warm and friendly.
However, someone close to
you also might surprise you.
Or perhaps you are surprised
by a new face. Tonight: Listen
to authority.

SAGITTARIUS (Nov. 22-Dec. 21) ★★★★ Things at work will go well today. Likewise, you feel strong and healthy. Something related to a pet might please but also surprise you. Stay on top of things. Don't be caught off guard. Tonight: Something is

worrisome.**CAPRICORN** (Dec. 22-Jan. 19)

**** An unexpected invitation might delight you today. You also might experience a fun and different social occasion. Be aware of where they are and what they're doing. Tonight:
Responsibilities with kids.

AQUARIUS (Jan. 20-Feb. 18)

★★★ You will enjoy
relaxing at home today. You
might be involved with a
group, or you might entertain
someone. Something unusual
will happen. A small appliance
might break down or so
be damaged. Or you might
receive a gift. Tonight: Family
responsibilities.

PISCES (Feb. 19-March 20)

★★★★ This is a feel-good
day! Because people are
upbeat, you will enjoy talking
to neighbors, siblings and
relatives. You might meet
new faces or discover new
places. Pay attention to
everything you say to avoid an
accident. Tonight: Something
worrisome.



SPORTS

Basketball loses back-to-back games for first time this season

By COLIN POST

SPORT EDITOR, TCU 360

In a year that TCU basketball has broken attendance records and had their best home court advantage in program history, they just cannot seem to get it done in front of their fans.

Leading by two with four minutes remaining on Tuesday night, the Frogs made just one basket the rest of the way, falling 54-51 to Iowa State at home in a game TCU desperately needed for their NCAA tournament resume.

"I have high hopes for this team, and we're certainly not meeting them right now," head coach Jamie Dixon said.

TCU is now a surprising 2-4 at home in conference play.

Scoring was a challenge for the Frogs all night. After starting 3-for-4 from behind the arc, they missed their last 14 attempts from deep.

To add insult to injury, TCU's leading scorer, sophomore guard Mike Miles (15.4 points per game), went o-for-9 from the floor with just 3 points.

The contest was the second of the point guard's career where he's made zero field goals, as he did the same at home against Kansas last January.

On the other end, Iowa State guards Izaiah Brockington and Tyrese Hunter were nearly unstoppable, combining for 35 points (18 in the second half).

Brockington, who

ranks fourth in the Big 12 with 17.2 points per game, led the game with 20 points, recording his fifth 20-point game since the start of conference play.

"He [Brockington] has a good step back," first-year forward Eddie Lampkin said. "His step back is good. I'm not going to lie. Everybody saw it tonight."

While Miles was struggling to get going, Lampkin gave his best effort to pick up the slack. A day after receiving an NIL deal with Chicken Express, he scored a career-high 16 points on 8-of-9 shooting, adding nine rebounds as well.

Junior forward Emanuel Miller joined Lampkin in double digits with 14 points, but no other Frog had more than 7.

"We have to get better. We have to rebuild as a team," Miller said. "We have to look at this loss and the previous loss and see what we can do better. We have to bounce back."

From start-to-finish, the game was a battle. There were 12 lead changes and neither team ever held a lead larger than 6.

After missing their first four shots, TCU hit back-to-back threes early in the first half that got the crowd going in Schollmaier Arena out of their seats.

First, junior guard Francisco Farabello sent his defender flying with a pump fake then drilled a three. Then, junior guard Damion Baugh got shoved on a three-point attempt and still was able to swish the shot while falling to the ground.

There was no foul call from the refs, but the crowd, and Baugh, loved it.

Like they did last Saturday in Lubbock, the Frogs started off hot from behind the arc. Two of their first three makes from deep came from Farabello alone.

The game then got really sloppy for both teams. TCU missed their next seven three-point attempts, while Iowa State went blank (0-5) from deep in the first half.

"We need to shoot it better," head coach Jamie Dixon said. "I thought the first half shots were pretty good. Not as good in the second half. But we'll go look at film but you know, obviously, the number of sticks out-3-for-18."

The Cyclones did everything they could to try and let the Frogs take control, but the home team struggled to find any momentum. At the half, TCU led by just two (24-22), and the teams were a combined 17-for-55 (31%) from the field.

At that point, Miles was 0-for-5 from the floor with 1 point, while Brockington was leading the game with 11 points on 4-of-8 shooting.

Right before halftime, Baugh hit the ground hard on a dunk attempt and struggled to get up. He would play just nine minutes in the second half, scoring 2 points.



PHOTO COURTESY OF GOFROGS.COM

TCU forward Eddie Lampkin (4) looks to make a pass in the Frogs' loss to Iowa State at Schollmaier Arena on Feb. 15, 2022.

The teams traded baskets to start the second half, and four lead changes were seen in the first two minutes.

An alley-oop from Miles to forward Emanuel Miller then gave TCU their first backto-back, unanswered field goals since early in the second half and a three-point lead.

Miller was not done, though. Near the middle of the half, the Texas A&M-transfer scored 7-straight points for the Frogs, putting their lead at 5 with 12:49 left in the game.

Over the next five and half minutes, the Frogs were outscored by 7, and the Cyclones grabbed a 2-point lead. Miles was still without a made field goal, sitting at o-for-8.

The hearts of every Frog fans then stopped, as both forward Eddie Lampkin and Miles went down with injury in the span of a few minutes.

Both players were soon able to return, and Lampkin began to put the Frogs on his back. His 8-straight points gave TCU a 2-point lead with four minutes remaining.

"I feel like I always can score the ball," Lampkin said. "They [Iowa State] were playing help a lot, and my guys were going off, so they [his teammates] could drop it off easy."

The Frogs then went cold, and the Cyclones finished the game on a 7-2 run to win the game. TCU had several chances on their final possession to win it, but none of them fell.

With two seconds remaining, Lampkin collided with Iowa State forward Alijaz Kunc, and the ball flew out of bounds. Following review, possession went to the Cyclones, and Kunc then made two free throws to seal a TCU loss.

This is the first time this season that the Frogs have lost back-to-back games, and they are now below .500 in conference play for the first time this year (5-6).

"It sucks. At home.
Our great fans were
there. Our fans were
there. Together as a
group, we were there,"
Miller said. "I think we
competed harder than we
did last game. It sucks,
but it only sucks to the
point if we don't look to
use it against Baylor."

TCU has a tough follow-up to the loss this Saturday, as they head on the road to face No. 7 Baylor. Tipoff in Waco is scheduled for 11 a.m. on ESPN2.