

UT student discovers first grass carp eggs in Great Lakes tributary

By Christine Long

A graduate student at The University of Toledo is the first researcher to find direct proof of grass carp, a type of invasive Asian carp, spawning in a Great Lakes tributary.

Holly Embke collected eight grass carp eggs last summer in the Sandusky River, which flows into Lake Erie. She discovered the eggs between Fremont, Ohio, and Lake Erie's Sandusky Bay after a period of heavy rains.

The fish eggs, which were confirmed through DNA testing, mark the first direct evidence of the invasive species reproducing in the Great Lakes basin. Embke's paper was published in the *Journal of Great Lakes Research*, and she also presented her work at the annual conference of the International Association for Great Lakes Research June 9 at the University of Guelph in Ontario, Canada.

This research was conducted as a follow-up to U.S. Geological Survey findings in 2013 that indicated four young grass carp taken from the Sandusky River were the result of natural reproduction.

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Photo by Daniel Miller

FISHING EXPEDITION: UT graduate student Holly Embke is the first researcher to discover direct proof of grass carp, a type of invasive Asian carp, spawning in a Great Lakes tributary.

Medical student receives national leadership award for rural health outreach

By Christine Long

Third-year medical student Hallie Foster grew up in a city, but her heart belongs in the country.

"I always knew I wanted to work with patients in areas with doctor shortages and access-to-care problems," Foster said. "Originally, I had dreams of working internationally as a physician in foreign countries that could use a few more doctors."

A conversation with one of her cousins in her grandparents' eastern Ohio backyard changed the course of her life.

"She told me to take a look around," Foster said. "Good doctors are needed out here, too."

Since then, Foster focused her attention on some of the nation's most underserved regions.

Foster spent the summer after her first year at The University of Toledo College of

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HONORED: UT medical student Hallie Foster received the 2016 Student Leadership Award from the National Rural Health Association from Alan Morgan, CEO of the association, and Lisa Kilawee, president of the nonprofit group.

Celebrate 10-year anniversary of UT-MUO merger

By Meghan Cunningham

The University of Toledo will mark the 10-year anniversary of the merger of UT and the Medical University of Ohio with a celebration Thursday, June 16.

The event will take place from 3 to 4:30 p.m. in Health Education Building Room 100 on Health Science Campus and will recognize the July 1, 2006, date when the two institutions became one and the decade since that has increased interprofessional education and research opportunities for UT students and faculty.

UT President Sharon L. Gaber and Dr. Christopher Cooper, executive vice president of clinical affairs and dean of the College of Medicine and Life Sciences, will speak at the celebration. Chuck Lehnert, UT vice president of corporate relations,

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New vice provost selected to focus on retention and graduation

By Jon Strunk

As The University of Toledo continues its efforts to increase student retention and graduation rates, a new position in the Office of the Provost will focus in this area.

Dr. Brian Ashburner will permanently fill a role he has held for several months on an interim basis as vice provost for retention and undergraduate studies, pending approval by the UT Board of Trustees.

“UT has seen increasing retention over the last several years, and we need to make sure we continue that trend,” Ashburner said. “We want to ensure that first-to-second-year retention leads to degree completion and graduations.”

Ashburner said there are plans to implement the Starfish CONNECT and

EARLY ALERT™ system more broadly beyond math and English courses to encompass all new students.

Starfish is an academic alert software program that enables instructors to provide positive feedback or to raise concerns with students in their class as the semester is ongoing and there is still time to intervene to help students be successful.

UT President Sharon L. Gaber has made the recruitment, retention and timely graduation of students one of her top priorities.

“Dr. Ashburner’s role is critical in coordinating the many services across UT that provide our students with every opportunity to succeed academically and

earn their degrees,” said John Barrett, interim provost and executive vice president for academic affairs.

“Student success will be front and center for the Office of the Provost, and I look forward to working with Dr. Ashburner to make measurable improvements in retention and timely degree completion at UT,” said incoming Provost Andrew Hsu, who also brings to UT an expertise in student retention.

Ashburner joined the UT faculty as an assistant professor of biological sciences in 2001 and was promoted to associate professor in 2006. He was named associate dean of the College of Natural Sciences and Mathematics in 2011.



Ashburner

UT nursing student wins national association’s Core Values Award

By Ashley Gearheart

Advocacy, professionalism, quality education, leadership and autonomy are the core values of the National Student Nurses’ Association, which recently presented Amanda Nuckols its Core Values Award.

The Core Values Award is given nationally to one student per year. The award is designed to inspire students to embody the values most important to members of the National Student Nurses’ Association.

To be eligible for the Core Values Award, students must be pursuing a nursing degree and be a member of the National Student Nurses’ Association, and they must be nominated by faculty.

“It’s an honor working with a student that demonstrates these core values. She’s amazing. She’s humble. I’ve never met another student like her in all my years as an advisor,” said Karen Tormoehlen, Student Nurses Association advisor and assistant professor, who nominated Nuckols for the award.

Nuckols graduated in May from the Clinical Nurse Leader Program, which allows students with a bachelor’s degree in another discipline to receive a master’s degree in nursing in two years.

In her time as a nursing student, Nuckols served as president, cohort representative and convention planner of the UT Student Nurses’ Association. She also served on the Nominations and Elections Committee of the national organization.

In addition to these roles, Nuckols helped build a playground for the local Ronald McDonald House, assisted in a community event that gave families impacted by human trafficking a day at the zoo, led the local Student Nurses Association chapter in providing a bountiful



Photo by Lindsay Gregory

IN THE SPOTLIGHT: Amanda Nuckols received the Core Values Award from the National Student Nurses’ Association.

Christmas for orphans, participated in medical mission trips to developing countries, volunteered at a free clinic serving the homeless, and more.

Nuckols will return to the University this fall to continue her studies with the Family Nurse Practitioner Program. She also intends to work as a registered nurse while pursuing her third degree.

“This is a huge honor,” Nuckols said. “I have worked hard to do well as I was completing my studies, while also being involved in a variety of organizations and roles. I am so glad that my effort and dedication have paid off.”

Medical student

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Medicine and Life Sciences completing a clinical preceptorship at East Tennessee State University. She worked alongside health-care professionals in eastern Tennessee to learn about improving the health and well-being of Appalachian Americans.

“I’m a latecomer to rural health care, but I’m committed to health-care equality for people who don’t live in close proximity to the dense resources available in an urban area,” Foster said. “The need is absolutely there, and the people face unique vulnerabilities not seen in other parts of the country.”

As a student constituency group board member with the National Rural Health Association, Foster is developing a student-alumni network to expand mentorship from recent graduates to current student members.

For her work on the student board, Foster won the 2016 Student Leadership Award from the National Rural Health Association.

The nonprofit organization honored Foster in Minneapolis during its 39th Annual Rural Health Conference, the largest gathering of rural health professionals in the country. Foster is one of seven people across the country who were recognized at the conference in May in Minnesota.

“Every year, rural Americans come together to gain education and raise awareness on behalf of the 62 million Americans who live in rural areas and desperately need access to affordable health care,” said Alan Morgan, CEO of the National Rural Health Association. “We are especially proud of this year’s winners. They have each already made tremendous strides to advance rural health care, and we’re confident they will continue to help improve the lives of rural Americans.”

The National Rural Health Association’s membership is made up of 21,000 individuals and organizations.

“This is a staggering honor,” said Foster, who plans to pursue a psychiatry-focused residency. “I hope my relationship with the National Rural Health Association will be long, and I plan to continue a focus on rural health care throughout my career.”

Assistant professor elected to lead international neuroscience society

By Rebecca Schwan

Dr. F. Scott Hall, assistant professor of pharmacology at The University of Toledo, recently was elected president of the International Behavioral Neuroscience Society.

The society is a nonprofit organization that consists of scientists, clinicians, therapists and educators from 34 countries. It encourages research and education in the relationship between the brain and behavior.



“The goals of the International Behavioral Neuroscience Society closely align with my own career aspirations and are important to the field of neuroscience,” Hall said. “I hope to continue the tradition of providing a learning environment that is focused on science and research, which also encourages interactions between students and established scientists with opportunities for mentorship and career development.”

Hall is interested in the study of neurodevelopmental and genetic rodent models of addiction and psychiatric disorders. His

newest book, *Negative Affective States and Cognitive Impairments in Nicotine Dependence*, explores the psychiatric reasons individuals become addicted to nicotine and is scheduled to be published by Elsevier Science Publishing Co. Inc. in September.

Anniversary

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will serve as the emcee for the event that also will feature a video of UT and elected leaders reflecting on the merger.

The Medical College of Ohio was established in 1964 as the 100th medical school in the United States and welcomed its first class of students in 1969. The college grew to include schools of medicine, nursing, allied health, and a graduate school of biomedical sciences, and in 2005 became the Medical University of Ohio to reflect that.

One year later, the college merged with UT, which has served the Toledo community since it was established in 1872. UT has been a member of the state university system since 1967.

Separate for 40 years yet less than 4 miles apart, UT and MUO have accomplished great things during the past decade as a merged institution that is one of just 27 universities in the nation with its comprehensive breadth of undergraduate, graduate and professional programs.

THE UNIVERSITY OF TOLEDO
10-YEAR ANNIVERSARY
OF THE UT-MUO MERGER

Thursday, June 16 | 3 – 4:30 p.m.

THE UNIVERSITY OF TOLEDO'S HEALTH SCIENCE CAMPUS
HEALTH EDUCATION BUILDING ROOM 100

ROCKET RECESS @WORK

Calling all HSC employees!
Tuesday, June 14
11:30 A.M. - 2 P.M.

Chess, lawn darts, bean bag toss, healthy refreshments and much more!

ON THE LAWN OF THE HEALTH EDUCATION BUILDING ON THE HEALTH SCIENCE CAMPUS

HEALTHY U
A healthy U is a healthy UT

In memoriam

Sharon Cutlip, Toledo, a former medical assistant at UT Medical Center, died June 5 at age 56.

Bridget A. Hogan, Toledo, an employee for three decades, died June 3 at age 54. She worked in food service at MCO/MUO and UT from 1981 until her retirement in 2011.

Dr. Timothy R. Loeb, Toledo, who taught biology at UT from 1997 to 2002, died May 31 at age 81.

Kathleen J. Voigt, Monclova, a faculty member in Carlson Library for 23 years, died May 28 at age 82. She was professor of library administration when she retired.

Women & Philanthropy at UT announces 2016 grant award winners

Women & Philanthropy, a volunteer organization that promotes The University of Toledo through grants to UT initiatives, has given 2016 grants in the amount of \$81,545

The first grant for \$31,465 was awarded to the Instrumentation Center for the construction of an interactive display titled “Living Science: The Ever-Changing Periodic Table.”

This display will have nearly 120 individual LED-illuminated and engraved glass boxes — one for each element — demonstrating how the element relates to everyday life and current events. The display will have touch-screen technology with a kiosk that will contain apps that supplement the display with stories or short movies about each element and allow the viewer to play with elements.

The proposed location for the 3-D display is the entrance that connects Wolfe Hall and the Bowman-Oddy Laboratories. Viewers will be able to scan the display with their smartphones and be taken to a UT webpage explaining the specific exhibit.

Dr. Kristin Kirschbaum, director of the UT Instrumentation Center, believes the display will become a focal point for visitors to The University of Toledo, as well as for faculty, staff and students.

“We are honored and beyond excited to receive funding for the ‘Living Science’ project,” Kirschbaum said. “Through this generous gift, we will bring the many diverse talents at UT together creating a unique display for UT and the Toledo community for learning and exploring. The Wolfe Hall exhibit will not only show the fun in science, but will bring

attention to the College of Natural Sciences and Mathematics and will highlight the community of The University of Toledo.”

The second grant in the amount of \$50,080 went to the College of Natural Sciences and Mathematics for the completion of an active learning classroom for use in science and math courses, as well as by other colleges and departments at the University.

The purpose of this project is to convert Wolfe Hall Room 2238 into a technology-assisted active learning classroom with space for 45 students. Funds from Women & Philanthropy will be used to cover the purchase and installation of furniture, white boards, carpeting, and other technology and non-technology needs.

Once completed, students will be able to work in groups with increased student-to-student and teacher-to-student interaction. This state-of-the-art teaching and learning space will allow the advancement of science and math teaching methods, and will incorporate best practices for collaborative student learning in these courses.

“We are really excited that Women & Philanthropy will be supporting the conversion of space in Wolfe Hall into an active learning classroom focused on science and math education,” Dr. John Plenefisch, associate dean for the College of Natural Sciences and Mathematics, said. “Having this space dedicated to active and collaborative learning will be a significant contribution to the quality student learning experience we have here at The University of Toledo.”

Women & Philanthropy at The University of Toledo was chartered in 2006

and made its first award to UT in 2008. Through this giving circle, members of diverse backgrounds and interests work collaboratively to make positive, meaningful and immediate impacts at the University.

Over the past nine years, Women & Philanthropy has given a total of 15 grants totaling \$358,446 to The University of Toledo, according to Chris Spengler, director of advancement relations in Advancement, who is a member and administrative contact for Women & Philanthropy.

Through their generous support, members of Women & Philanthropy have created a permanent legacy at The University of Toledo.

“Our goal is to unify and collaborate with many women to make a difference at The University of Toledo,” said Marianne Ballas, chair of Women & Philanthropy at The University of Toledo. “These gifts are examples of what we can do with a



“A University Woman,” a glass sculpture by local artist Tom McGlauchlin, serves as the logo for Women & Philanthropy at The University of Toledo. The piece is located in the Carlson Library concourse and was made possible by the group’s first grant in 2008.

membership of only 70 women. We invite all women to research our group and consider a membership.

“Collective and collaborative giving is powerful, and that’s what Women & Philanthropy is all about,” she added.

Applications for 2017 grants will be available in late fall.

Additional information about Women & Philanthropy is available at <http://utole.do/womenphilanthropy>.



Supporting research

Dr. Kenneth Hensley, UT associate professor of pathology, right, and Howard Newman, UT associate vice president of development on Health Science Campus, accepted a check for \$11,000 from Allie Dama Affandy, vice president and co-founder of the Life as a Zebra Foundation Inc., left, and Katie Dama Jaskolski, president and co-founder of the Life as a Zebra Foundation. The nonprofit organization raised money during a benefit concert at the Kellogg Conference Center in East Lansing, Mich., to support UT Health research on dysautonomia by Hensley and Dr. Blair Grubb, Distinguished University Professor of Cardiovascular Medicine and Pediatrics.

New technology at UT Health is advancing prostate cancer screening and care

By Rebecca Schwan

Advances in technology now available at UT Health allow physicians to reduce the risk of unnecessary prostate biopsies, more accurately diagnose cancer, and provide a clearer picture of treatment options available.

Each year in the United States, more than one million men undergo a prostate biopsy because of an elevated prostate-specific antigen known as PSA or abnormal rectal examination. Unfortunately, up to 800,000 of them will have undergone the invasive and risky procedure for no reason, as their biopsies are likely to be negative or show non-deadly, non-aggressive disease.

“For years, the traditional pathway for prostate cancer detection has been to perform a biopsy if a man had an abnormal PSA or rectal exam” said Dr. Samay Jain, vice chief of staff and division chief of urologic oncology at UT Health. “However, prostate biopsies have come under considerable fire as of late because of the significant risks of severe infection and death in certain cases.”

Fortunately, there is a better way, and it is available right here in northwest Ohio.

Advances in magnetic resonance imaging, or MRI technology, enable UT

physicians to see inside the prostate in a safe and noninvasive manner to identify men who truly need biopsies.

“Prostate MRI allows us to see the prostate in a way that was never available before,” Jain said. “In the right hands, this information can be crucial in determining whether a man needs a risky biopsy or not.”

“Not only does MRI help in deciding who needs a biopsy, but for those diagnosed with prostate cancer, the imaging we have aids in tailoring individual treatments for each individual patient.”

Should a patient need to undergo a biopsy, images from the MRI allow for more precise sampling from areas of concern and yield much higher cancer detection rates than performing prostate biopsies without the MRI technology.

June is Men’s Health Month, and Jain reminds men the key to early detection is starting the conversation with their physicians.

“It can be an uncomfortable topic. Men don’t like to talk about prostate screenings for a variety of reasons,” he said. “But it’s important to have the

courage to broach the topic, even if their physicians don’t.

“Also, listen to your loved ones. I think there are many men who owe their lives to their wives and daughters for finally convincing them to schedule an appointment and get screened. By staying proactive, we are confident that we can decrease the number of men dying from prostate cancer in the near future.”

Current American Urological Association Guidelines recommend routine screening for healthy men between the ages of 55 and 69 and recommend a PSA and rectal exam every other year. Men outside

of this age range should have a discussion with their doctor on whether prostate cancer screening is right for them.



Photo by Daniel Miller

IMAGING: Dr. Samay Jain displayed an MRI that shows the anatomic detail of the bladder and the prostate.

Sexual dysfunction may reveal underlying medical condition

By Rebecca Schwan

Erectile dysfunction is a problem more common than men are willing to admit. Although it can be an uncomfortable topic, men shouldn’t shy away from discussing sexual health concerns with their physician.



Ajay

serious health risks, including heart disease, hypertension and diabetes.

Men’s health issues such as erectile dysfunction, low testosterone or incontinence are not only a quality of life concern, but also can be linked to potentially

June is Men’s Health Month, and UT Health physicians say it is an excellent time for men to take inventory of how they are feeling and to take action if they are experiencing sexual health symptoms. It is important for a man to schedule an appointment with a urologist if he experiences any the following:

- Erectile dysfunction with or without a decrease in sexual desire;
- Urinary incontinence or difficulty urinating;
- A lump or mass in the testicles;
- An elevated PSA level or abnormal prostate exam;
- Infertility;
- Andropause (male menopause); or
- Peyronie’s disease (penile curvature).

“Oftentimes we initially see a patient because he is having difficulty achieving or maintaining an erection,” said Dr. Ajay

Singla, UT Health vice chair of urology and director of the UT Men’s Health Clinic. “We may then find the patient has an underlying medical condition such as diabetes, vascular disease or obesity causing his symptoms.”

The diagnosis and management of these conditions can be challenging and in some instances could require a more collaborative approach to treatment.

The UT Men’s Health Clinic opened in 2015 to provide the only comprehensive, multidisciplinary clinic of its kind in the region. Since that time, the clinic has grown from three specialists to a team of seven health-care providers in urology, cardiology, endocrinology, physical therapy, family medicine and nutrition.

“This collaboration allows us to treat the patient as a whole and address all of his health issues during one appointment,” Singla said. “We are finding our patients appreciate the convenience of seeing

multiple specialists at one time and are pleased with the customized medical plans we provide.”

To better consolidate services, the UT Men’s Health Clinic is moving Tuesday, June 28, to the Regency Medical Campus located at 1000 Regency Court. The clinic sees patients on the fourth Tuesday of the month from 1:30 to 4:30 p.m.

The medical team’s emphasis is on common conditions affecting the urological, sexual and reproductive health of men. Services offered include surgical and non-surgical therapies for benign enlargement of the prostate, andropause, infertility, erectile dysfunction, premature ejaculation, permanent sterilization, varicocele, sexual dysfunction, Peyronie’s disease and incontinence.

To make an appointment for the clinic, call 419.383.4360.

Grass carp eggs

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“Lake Erie commercial fishermen have reported catching grass carp since the mid-1980s, but those catches were thought to be sterile escapees from ponds and small lakes that were legally stocked for aquatic weed control,” said Embke, who is pursuing a master’s degree in biology in the Department of Environmental Sciences. “The discovery of these eggs in the Sandusky River means that this invasive species of Asian carp, which consumes large amounts of freshwater vegetation, is naturally reproducing in our Lake Erie watershed.”

Although considered a species of Asian carp, wild adult grass carp pose significantly different risks to the Lake Erie ecosystem than bighead carp and silver carp, which are the two invasive Asian carp species of great concern in the Mississippi River basin. Both bighead carp and silver carp consume plankton, and if these species were to make their way into the Great Lakes basin, they would compete for the same source of food that ecologically and economically important native fish species need to survive. Silver carp are well-known for their jumping ability.

Grass carp pose a risk to waterfowl habitat and wetlands, but they do not eat plankton and are unlikely to compete directly with native fish. Grass carp do not jump and are primarily herbivorous. They can alter habitats for native fish communities near the shoreline by eating submerged, rooted plants and weeds.

Scientists with UT, the Ohio Department of Natural Resources Division of Wildlife and the U.S. Geological Survey are collecting additional samples from the Sandusky River to continue studying the habitat requirements of grass carp spawning in order to inform methods for control of all invasive species of Asian carp.

“While the discovery of eggs is disconcerting, grass carp continue to remain present in the Lake Erie system in very low abundance,” said Rich Carter, executive administrator for fish management and research with the Ohio Department of Natural Resources Division of Wildlife. “There is currently no evidence of negative impacts to the Lake Erie ecosystem that can be attributed to grass carp. However, it is important that we remain vigilant and continue to build understanding about this species in Lake Erie and throughout the Great Lakes.”

“Given the similarities in reproductive strategies, this ongoing research on grass carp spawning may help us minimize the risk of bighead carp and silver carp from establishing a foothold in the Great Lakes,”

said Patrick Kocovsky, a U.S. Geological Survey research fishery biologist. “What we learn here also might apply to potential control strategies in tributaries to the Mississippi River.”

Sterile grass carp can be legally stocked in Ohio, as well as Indiana, Illinois, New York and Pennsylvania. They are a popular pond and small lake management tool because they control aquatic weeds. Ohio has banned the stocking of fertile grass carp, and Michigan has banned all grass carp. The fish was first imported to the United States from Taiwan and Malaysia in 1963.

Researchers next will work to identify the spawning and egg hatching locations for the Sandusky River.

“Predicting locations and conditions where grass carp spawning is most probable may aid targeted efforts at control,” Embke said.

Embke is based out of UT’s Lake Erie Center, where she does all of her sample processing and analysis.

The UT Lake Erie Center is a research and educational facility focused on environmental conditions and aquatic resources in Maumee Bay and western Lake Erie as a model for the Great Lakes and aquatic ecosystems worldwide.

“This discovery was student research,” Dr. Christine Mayer, UT ecology professor, said. “Our graduate students are doing work that is useful. They’re not just in the lab. They’re out in our region’s rivers and lakes providing information that helps solve problems.”

For more information on Asian carp or how to report sightings, go to wildlife.ohiodnr.gov.

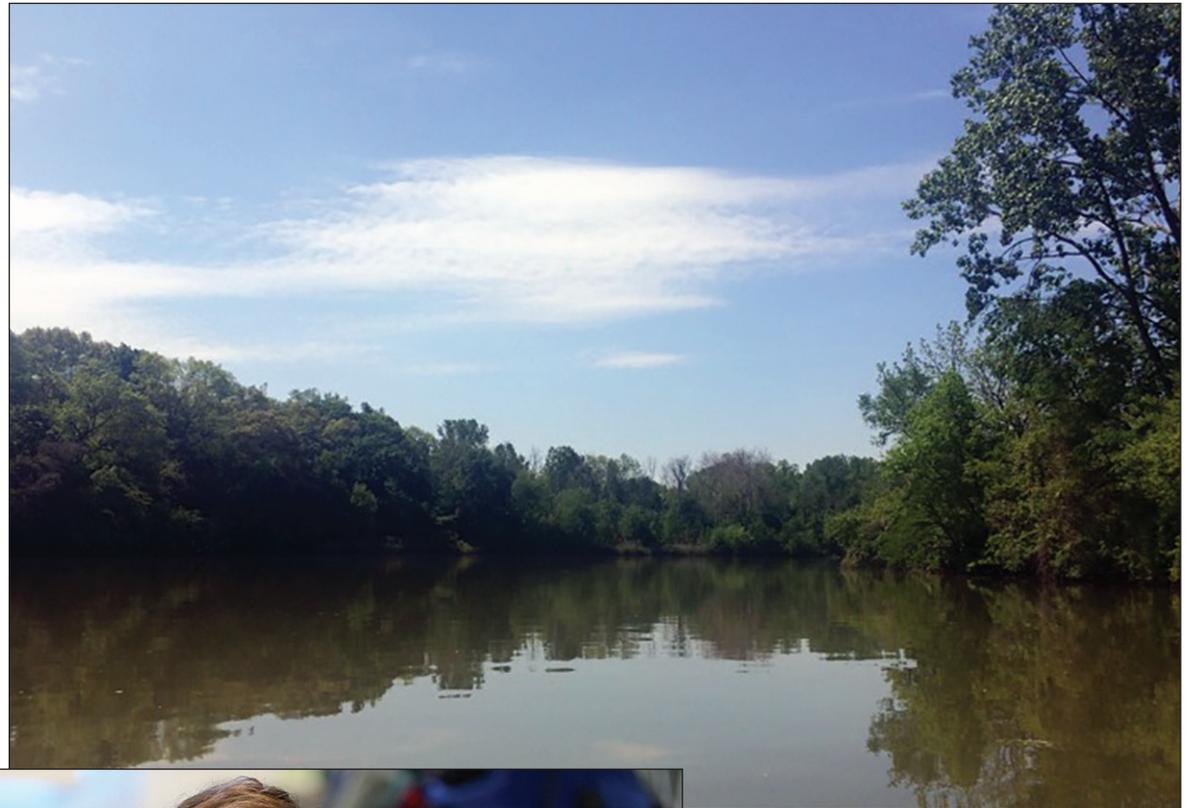


Photo by Holly Embke

DOWN TO THE RIVER: Last summer, UT graduate student Holly Embke collected eight grass carp eggs in the Sandusky River, which flows into Lake Erie.



Photo by Daniel Miller

CLOSER LOOK: UT graduate student Holly Embke examined a grass carp egg, which is seen below.

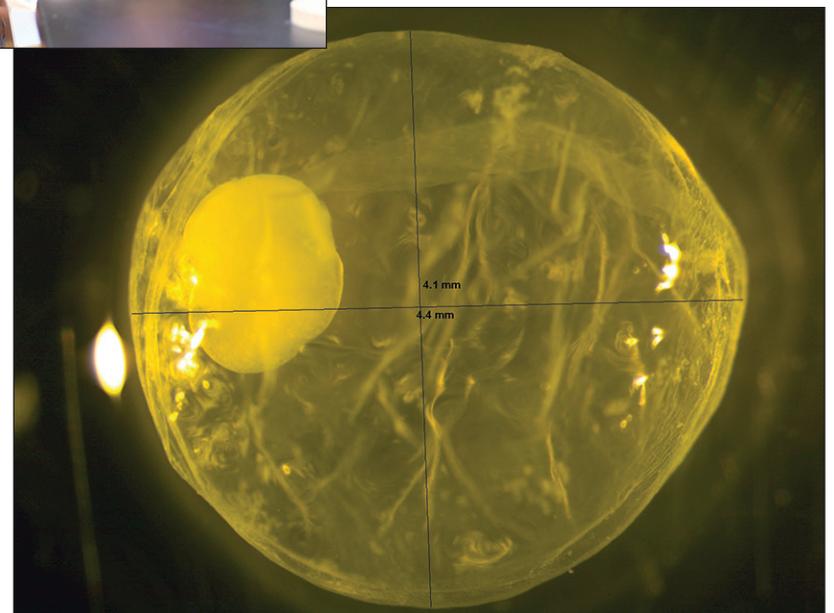


Photo by Holly Embke

UT students take daily dip to predict public swim safety at Lake Erie's Maumee Bay State Park beach

By Christine Long

Battling nine-inch waves in chest waders one windy Wednesday morning, University of Toledo senior Kevin Corbin managed to stay dry.

"It's not a bad way to start every day," Corbin said while holding steady a wave stick.

The environmental science major is part of the Lake Erie Center team that tests water quality at the Maumee Bay State Park beach for *E. coli* bacteria levels Monday through Friday during the summer through Labor Day.

"We get the results up on the Ohio Nowcast website by 9:30 a.m. to inform families if there is a swimming advisory before they leave the house and head for the beach," said Pam Struffolino, UT Lake Erie Center research operations manager. "It's convenient."

Although the traditional *E. coli* test takes a lab, a petri dish and 24 hours to process sample results, the UT Lake Erie Center team has developed a model using weather and water conditions to forecast a prediction immediately. The traditional water sample results are later used to validate the model.

"We collect environmental data, including wind direction, solar radiation, change in lake level, rainfall and water clarity. No delay in a decision thanks to our database," Struffolino said while barefoot on the beach. "We've been more accurate using the model than the traditional method since we began collecting data eight years ago."

"Sunshine actually kills bacteria," said sunglasses-clad Ryan Jackwood, a UT graduate student, while recording numerical values on a clipboard. "A south wind is good, too, to drive bacteria and sediment out into the lake rather than onto the shore."

On this first Wednesday of June, the lake was wavy with a northeast wind.

"The rougher it is, the more *E. coli* in the water," Struffolino said. "It stirs up the sediment on the lake bottom and pulls it to shore."

The UT team ended up issuing its second swim advisory of the 2016 season.

The University is under contract with the Ohio Department of Health to post swimming advisories for the beach with the Lake Erie Center's forecasting model based on the likelihood that *E. coli* exceeds safe levels.



Photos by Christine Long

WAVE RUNNER: Kevin Corbin held a wave stick at Maumee Bay State Park to collect data that helps forecast water quality for Lake Erie swimmers.



ON THE BEACH: Dr. Daryl Dwyer, UT ecology professor, and Pam Struffolino, research operations manager at UT Lake Erie Center, are on the public beach at Maumee Bay State Park to oversee the daily water testing.

"We're out here working to inform members of the public of a potential health hazard if they choose to swim on days that have an advisory posted," Jackwood said.

Last year, the team saw a reduction in the amount of beach postings caused by *E. coli*. It's attributed to work being done to help improve the water.

Dr. Daryl Dwyer, UT ecology professor, recently headed a \$1.8 million wetland restoration project on the edge of Maumee Bay State Park through a U.S.

Environmental Protection Agency Great Lakes Restoration Initiative grant. That wetland also captures phosphorous and sediment in the watershed before it can enter Lake Erie.

"We're getting 70 to 90 percent reduction in bacteria coming through the wetland, depending on the day," Dwyer said.

This marks the seventh year UT is using predictive forecasting for *E. coli*.

"We're now starting to develop a model for toxins, like microcystin," Struffolino said.

As the group leaves the beach, Corbin is already thinking about tomorrow morning.

"Next time I'll bring my swimming trunks," Corbin said. "I could do without the waders."

Glaciy Theatre Collective to perform original musical at Toronto Fringe Festival

The Glaciy Theatre Collective has been selected to perform at the Toronto Fringe Festival from June 29 through July 10 and will present its original musical, "House of Vinyl," written and composed by company members Dr. Edmund B. Ligan, UT associate professor and chair of theatre and film, and Timothy Lake.

Originally developed and performed in Toledo one year ago, this tightly wound, bubble-wrapped, 55-minute psychedelic musical was developed as part of Glaciy Theatre Collective's Junkbox Theatre project. The idea is to take unfinished scripts, loosely connected scenes, current obsessions, scribbled notes and musical compositions with or without lyrics that company members have from previous inspirations and mash them together to see what sticks. The ultimate goal is a completely new story that any audience can appreciate.

The musical has been reworked slightly since its original production and now features a smaller cast playing multiple roles.

In the Toronto Fringe Festival format, companies have exactly 15 minutes to set up for each performance and another 15 to strike afterward, so the technical elements were streamlined to fit the festival parameters.

Directed by Lake and based on a story that Ligan has written and re-written as a play, novel and screenplay, "House of Vinyl" focuses on Horton Stephen Wilder, who has an intense fear of open spaces, or agoraphobia. When Horton is forced out of his apartment and into the street because of a gas leak, he embarks on a strange and hallucinogenic journey involving lawyer-knights, psychic stingrays, a diaper fetishist, and yards and yards of vinyl. Will he ever make it back to his apartment and safety? Or will he be trapped in the "House of Vinyl" forever?

Nolan Thomaswick is returning in the role of Horton. Other returning cast members are Jennifer Nagy-Lake, Tori Zajac, Ligan, and Holly Monsos, UT associate dean of the College of Communication and the Arts. New to the cast are Dr. Gary Insch, dean of the UT College of Business and Innovation, and Lynnette Bates and Noah York.

The Ligan-Lake score is mostly guitar-driven and is played by Ligan and Insch, augmented with triggered samples. Andrés Medina is stage manager, costumes are designed by Bates, and lighting is designed by Cory Sprinkles.

To help offset the cost of housing a company of 11 for nearly two weeks in Toronto, the collective has started a Go Fund Me campaign. To learn more or to donate, go to <https://www.gofundme.com/Glacity>.

Before leaving for Toronto, "House of Vinyl" will play two performances Saturday and Sunday, June 25 and 26, at 8 p.m. in the Center for Performing Arts Center Theatre. The doors will open 30 minutes prior to curtain.

All tickets are \$20 online or at the door and include a reception afterward. To purchase tickets in advance, go to <http://glacity.tix.org>.

After the weekend shows in Toledo, the company will travel to Toronto for seven performances at the Robert Gill Theatre during the festival.

Learn more about the Toronto Fringe Festival at <http://fringetoronto.com/fringe-festival>.

Go to <http://glacity.org> for more information about the collective or "House of Vinyl."

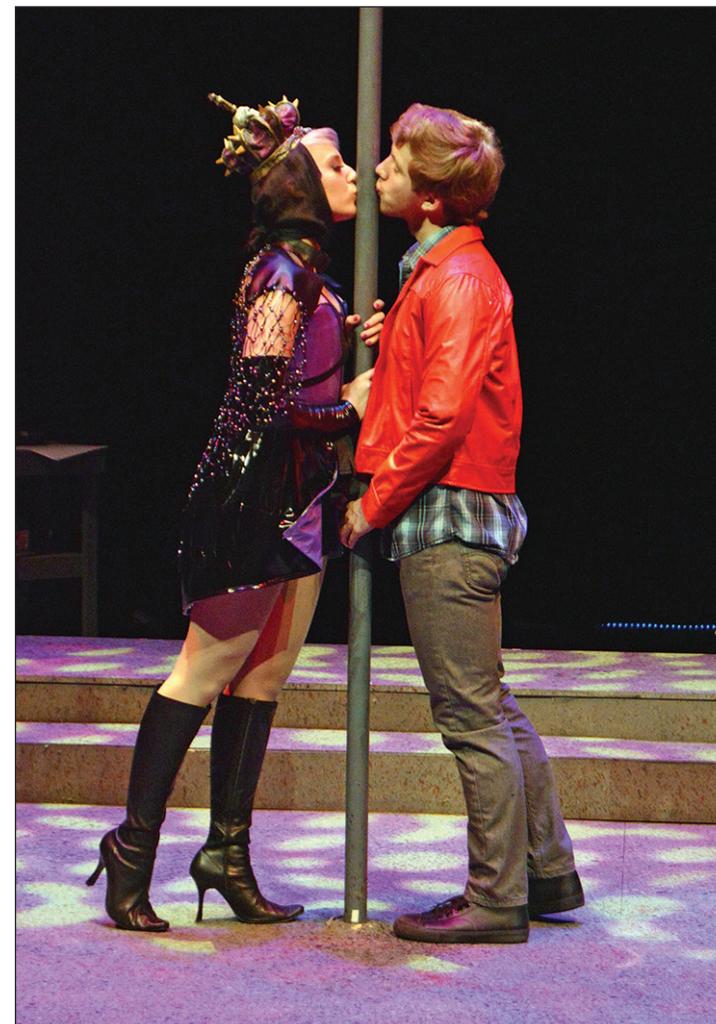


Photo by Cory Sprinkles

ON STAGE: Tori Zajac and Nolan Thomaswick rehearsed a scene from the Glaciy Theatre Collective's musical, "House of Vinyl."

UT alum to launch new book

University of Toledo alumna Jasmine Shea Townsend will launch her new book, *The Adventures and Shenanigans of Bastien Falco*, on Friday, June 24, at 2 p.m. in the Ward M. Canaday Center for Special Collections on the fifth floor of Carlson Library.

The free, public event will include readings of selections from the book by Townsend.

Described by Townsend as a comedic fantasy novel, the book follows the adventure of Prince Bastien and his manservant, Sandy, as they seek revenge for the murder of the prince's bride-to-be on their wedding day. In the process, the prince and

Sandy are kidnapped by a mysterious woman and her gang of bandits.

Townsend received her bachelor of arts degree in creative writing from UT in 2013 and her master of arts degree in literature in 2015 also from the University.

Previous works by Townsend have received Mill Magazine's spring 2014 fiction award and a second-place award for a short story in 2015 from the Toledo Writers' Workshop.

Refreshments will be served. Copies of the book will be available at the event for \$10.

For more information, contact the Canaday Center at 419.530.2170.



Zoepke Photography



BOOK LAUNCH

PARTY!

for

The Adventures and Shenanigans of

BASTIEN FALCO

Come celebrate the release of humorous fantasy novel *The Adventures and Shenanigans of Bastien Falco* by Jasmine Shea Townsend.

It'll be an adventure.

University of Toledo Carlson Library

Friday June 24, 2016
2 p.m. to 4 p.m.

Refreshments served

UT conference encourages living well after cancer diagnosis

By Rebecca Schwan

The University of Toledo Center for Health and Successful Living is hosting a breast cancer survivorship conference Saturday, June 25, from 8:30 a.m. to 1:30 p.m. at the Academic Services Center on UT's Scott Park Campus.

"A breast cancer survivor is someone who lives with, through and beyond cancer," said Dr. Amy Thompson, professor of health education. "Whether or not she thrives is a matter of quality of life."

A cancer diagnosis marks the beginning of a journey filled with physical, emotional, spiritual, social and financial challenges. These challenges are more easily overcome if survivors receive support that empowers them to take control of their well-being.

The Mind, Body, Soul, Spirit:

The Journey From Survivor to Thriver conference will feature keynote speaker the Rev. April Hearn, who will share an inspiring message of hope and joy.

Conference breakout sessions will include Peace, Tea and You; De-Stressing: Everything You Need to Know You Learned in Kindergarten; Essential Oils: Smelling to

Feel Better; and Helping Yourself by Helping Others. The event also will feature nearly two dozen vendors, door prizes, and the opportunity to make connections with other cancer survivors.

The event is co-sponsored by UT Health's Eleanor N. Dana Cancer Center and the African American Women's Cancer Support Group.

"We especially want to reach out to women in underserved communities," said Barbara Oxner, community outreach coordinator for the African American Women's Cancer Support Group. "A cancer diagnosis can be especially challenging for minorities, older women, those with financial difficulties, and those who do not



2016 Cancer Survivorship Conference

Mind-Body-Soul-Spirit

The Journey from Survivor to Thriver

Keynote Speaker: Reverend April Hearn

have a strong network of family and friends. They need extra support to get the most out of each day and truly thrive during and after treatment."

Registration is \$5, which includes access to the educational sessions, health screenings, vendors, breakfast and lunch. There are a limited number of registration scholarships available to women who need assistance.

"We want to help breast cancer survivors reach a high level of mental, physical and emotional well-being while they adjust to living with a cancer diagnosis," Thompson said. "It is our goal to help patients live longer, healthier and happier lives."

To register, contact Jeannine Everhart by Wednesday, June 15, at 419.530.5205.

Satellites to hold summer sale this week

Designer-inspired sunglasses and lawn games are expected to be hot items at the Satellites Auxiliary's summer fundraising sale, which will take place Tuesday through Thursday, June 14-16, in UT Medical Center's Four Seasons Bistro Atrium.

The event will be held Tuesday from 7 a.m. to 5 p.m., Wednesday from 5 a.m. to 5 p.m., and Thursday from 7 a.m. to 4 p.m.

Looking for something for Father's Day? There'll be toolboxes and battery-powered motorcycles and other toys. "One of my favorite quotes: 'The difference between the man and the boy is the price of his toys,'" Lynn Brand, president of the Satellites Auxiliary, said.

"We'll have something for everyone — summer dresses, rocking horses, pet beds. Stop by and see for yourself," she added.

Profits will benefit campus scholarships, according to Brand.

The Satellites Auxiliary promotes education, research and service programs; provides support of patient programs in accordance with the needs and approval of administration; conducts fundraising events; and offers volunteer services.

For more information on the sale, contact Brand at lynn.brand@utoledo.edu.

High school students sought for College of Business and Innovation's Technology Camp

By Bob Mackowiak

The University of Toledo College of Business and Innovation will present its sixth annual Technology Camp for high school students Monday through Wednesday, July 11-13, in the Savage & Associates Business Complex.

Accommodating 40 area high school students from throughout northwest Ohio and southeast Michigan, the camp will provide a hands-on learning experience for teens who want to create their own apps, learn web design, discover modern business applications of technology, and actually build a computer that they will keep.

In fact, although there is a \$25 fee for the camp, each participant will leave the experience with a micro-computer that he or she has built, courtesy of the camp sponsors, Dana and Marathon.

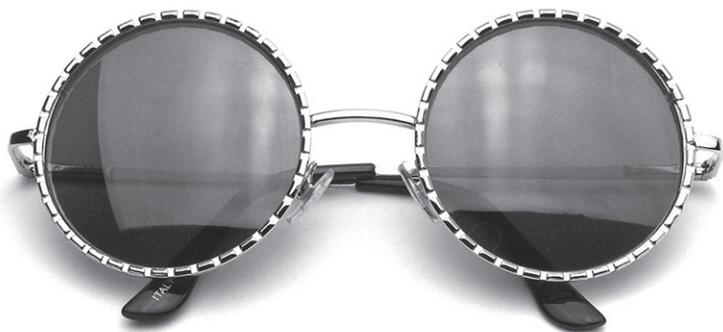
"For the first time in the camp history, everybody gets a machine," explained DJ Bensch, information architect in the College of Business and Innovation and one of the instructors at the camp. "It will be about the

size of a tablet, but will be a touch-screen machine with a keyboard and a mouse."

Bensch added, "The possibilities within modern technology are virtually limitless, and understanding computer technology is rapidly becoming an essential life skill for young people. The College of Business and Innovation's annual Technology Camp is an outstanding opportunity for high school students to immerse themselves in a technology learning experience where they will be able to explore both the power and the fun of information technology. We know that some of the students will become so enthralled by this experience that they will decide to come back to UT to study IT."

Space is limited. Parents can register their students at utoledo.edu/business/technologycamp and can direct questions to darlene.stevens@utoledo.edu or call her at 419.530.2087.

The 2016 Technology Camp is open to high school students who are the children of employees of The University of Toledo.



Medical student saves choking staff member at UTMC

By Amanda Benjamin

When University of Toledo medical student Jessica Ickes heard a cry for help in the Four Seasons Bistro at UT Medical Center, she sprang into action. Ickes performed the Heimlich maneuver on a UT staff member who was choking and saved her life.



Ickes

“It was nerve-wracking,” Ickes said. “You have to not focus on how scary it is and just do what you need to do.”

A UTMC nurse also helped by bringing water and napkins, Ickes said.

“Collectively, everyone was looking on to make sure the situation was resolved and that she was OK.”

Michelle Arbogast, UT health science affairs director, witnessed the incident. “It was surreal,” she said. “Everyone jumped into action and then went back to studying.”

Arbogast said she was impressed by how calm everyone was while helping

the woman as well as the teamwork they displayed.

“If you’re going to have something like that happen, it’s good to be in a room full of people in the medical field,” Arbogast said.

Ickes has been recognized for her life-saving action by being featured on the Above the Line wall, which is located across from the Gift Shop at UTMC. The Above the Line wall honors UT physicians, staff and departments that go above and beyond to improve the quality of patient care at UTMC.

“The Above the Line initiative aims to elevate our culture and promote a growth mindset, leading to a higher standard of excellence at UTMC,” said Tony Urbina, service excellence officer. He added that recognizing those who go above and beyond supports a culture of teamwork, respect and excellence.

UTMC’s Department of Service Excellence changes who is honored on the Above the Line wall once a month and holds monthly events to promote employee engagement.

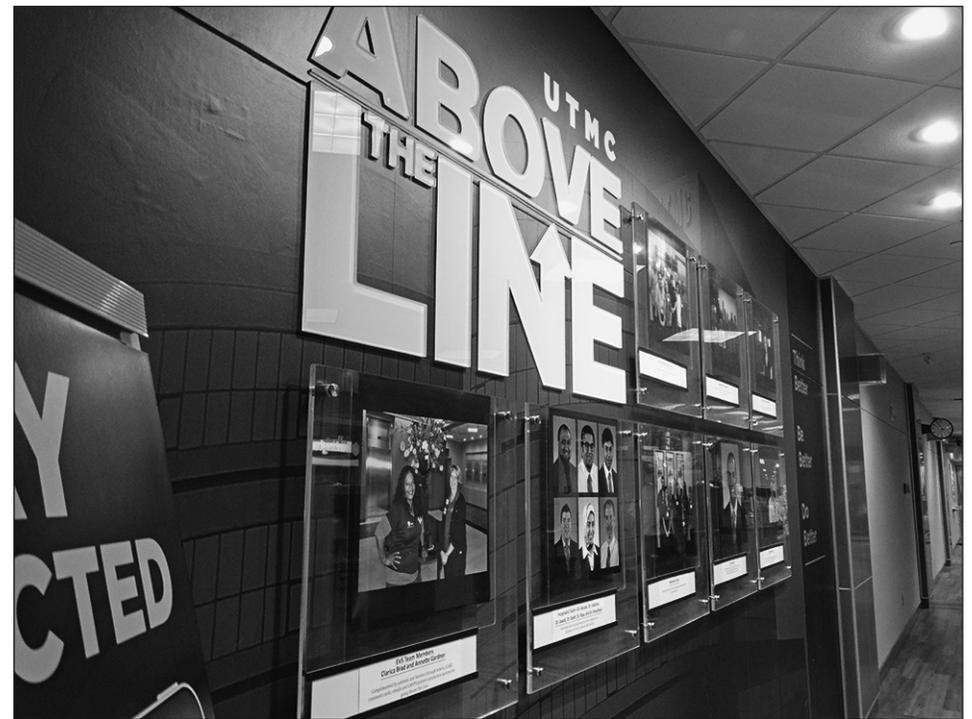


Photo by Amanda Benjamin

RECOGNITION: UT medical student Jessica Ickes was added to the Above the Line wall for performing the Heimlich maneuver on a staff member who was choking.

Faculty certified through Pathway to Master Online Instructor Program

By Sanya Ali

Three University of Toledo faculty members recently received special certification to teach their students online.

By completing the Pathway to Master Online Instructor Program, launched in August by UT Online, Dr. Claire Stuve of UT Online, Dr. Ruthie Kucharewski from the College of Health Sciences, and Dr. Daniel French from the College of Languages, Literature and Social Sciences are licensed to provide quality online education for students in the University’s fully online programs. Barbara Mauter of the College of Adult and Lifelong Learning completed the program as well, in October 2015.

These instructors followed the steps laid out by Pathway, including lessons in online teaching, Americans With Disabilities Act compliance, online course design, and the Quality Matters peer review process and rubric, and are certified Master Online Instructors.

“The Pathway Program was designed to help faculty develop the knowledge and skills needed to design quality online

courses and deliver effective online instruction with technology,” Phoebe Ballard, director of instructional design and development, said.

“I decided to take the Pathway courses because I wanted to broaden my understanding of instructional design in the humanities and provide the best online experience possible for UT students,” French said. “The online learning component of higher education is the future, whether it be in a face-to-face, blended, or all-online environment.”

In the course design portion of the program, instructors are introduced to the Backward Design method. The Backward Design framework begins with the identification of the desired results, with an emphasis on student learning, according to Ballard.

“They’re able to design effective online courses by applying the concepts of Backward Design and alignment,” Ballard said. “First, they develop measurable learning objectives. Next, they determine the acceptable evidence in the form of

authentic assessment. Finally, they develop engaging instructional materials and active learning activities, all in support of those measurable goals.”

“As a professor, it’s my nature to want to learn, so I signed up for the courses so I could improve my online teaching abilities and increase my level of understanding course design so that I can challenge and meet the needs of my students,” Kucharewski said.

The ability to take these courses in a largely online format is also a benefit to instructors.

“By participating in these courses as an online student, they have a deep understanding of what it takes to be an effective facilitator of online learning,” Ballard said. “They develop a deep understanding of the unique needs of the online learner and the kind of support online learners need in order to be successful.”

The differences in student needs are further highlighted by the Americans With Disabilities Act course, which looks to

close the gaps in education for those with distinctive learning needs.

The now-certified faculty members agree that these courses provide a more comprehensive look at student needs in the online environment.

“I learned a lot and it was definitely a worthwhile experience, because I have now experienced online learning as a professor and a student, and I understand teaching online so much more than ever before,” Kucharewski said.

“We owe our students learning outcomes that make a difference in their lives, and the Pathway Program goes far to accomplish this goal,” French said. “UT Online is an incredible asset that everyone should take advantage of.”

If faculty would like to learn more about the Pathway Program, they are encouraged to contact Ballard at phoebe.ballard@utoledo.edu or 419.530.4379.

Cool for school



Photo by Pamela Rogers

Several area high school students donned shades after putting their names on the dotted line during the Upward Bound TRIO Programs College Signing Day. They are, from left, Andre Matthews, Khrystina McQueen, Israel Douglas, Jada Bryant, Alexis Moore, Micah Conway and Aniya Allen. Matthews, Douglas, Conway and Allen are enrolled at UT; McQueen will go to Shawnee State University, Moore will attend Jacksonville University, and Bryant will be at Akron University. The event was held by UT, Bowling Green State University, Lourdes University and Owens Community College this spring in support of Michelle Obama's Reach Higher initiative, which encourages students to complete their education past high school, whether at a university, community college or professional training program.

Paint it black



Painters Amber Sayen, left, and Sherry Ankney last week put a fresh coat of black paint on the Fountain of Excellence, which is located between University, Gillham and Stranahan halls.

Photo by Daniel Miller

Flower power



Photo by Rachel Nearhoof

Daniel Krantz, left, and Ryan Krantz recently hung 30 baskets of begonias and vinca vines on Main Campus. The twin brothers, who are both seniors majoring in environmental science, were assisted by Cody Smith, who was running a forklift. The baskets weigh about 35 pounds each, according to Doug Collins, director of grounds and transportation.

UTNEWS

UT News is published for faculty, staff and students by the University Communications Office weekly during the academic year and periodically during the summer. Copies are mailed to employees and placed in newsstands on the Main, Health Science, Scott Park and Toledo Museum of Art campuses. UT News strives to present accurate, fair and timely communication of interest to employees. Story ideas and comments from the UT community are welcome. Send information by campus mail to #949, University Communications Office, Vicki Kroll. Email: vicki.kroll@utoledo.edu. Fax: 419.530.4618. Phone: 419.530.2248. Mailing address: University Communications Office, The University of Toledo, Toledo, OH 43606-3390.

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“ BECAUSE OF THE EXPERIENCES I HAD IN STUDENT ORGANIZATIONS AND GETTING INVOLVED, IT OPENED A LOT OF DOORS TO INTERESTS I DIDN'T EVEN KNOW THAT I HAD. ”

Lance

Information Systems major '17
College of Business and Innovation



EXCELLENCE

TO A
GREATER
DEGREE

PERSONAL AND PROFESSIONAL EXCELLENCE.

Those qualities have been reinforced for Lance since he was a high school student participating in college preparatory programs at The University of Toledo.

Now, as a student leader, he continues to pursue and promote those values as president of the Black Student Union. Working with his professors in UT's College of Business and Innovation, Lance is developing goals and a plan for success that include mentorship and networking with local executives, and he is encouraging other students to embrace the opportunities at UT.

LEARN MORE ABOUT HOW UT IS HELPING STUDENTS LIKE LANCE ACHIEVE EXCELLENCE AT

 UTOLEDO.EDU/GREATERDEGREE