

# MAKING THE Connection TO Career Technical Education

Thursday, February 18, 2021

## MACOMB COMMUNITY COLLEGE



SUBMITTED PHOTO

This new one-story structure at the Public Service Institute on Macomb's East Campus is teaching future firefighters how to conduct a search and rescue operation in zero visibility.

## 'STATE-OF-THE-ART TRAINING OPPORTUNITIES'

Fire academy students get 'look' at zero-visibility search and rescue

Macomb's Fire Academy has a new tool in training future firefighters on how to carry out rescue operations in zero-visibility situations.

The 16' x 40' one-story structure provides simulated training in forcible entry, search and rescue, and victim removal, as well as attending to firefighters who become disoriented or unconscious during a fire emergency.

While students may take only the Fire Academy, it is a requirement for completion in Macomb's Fire and

Emergency Medical Services Technology program, which leads to an associate of applied science degree.

"The vast improvements made at the Fire Academy demonstrate the college's commitment to the public safety professions," said Daniel Reynolds, Fire Academy/Health and Safety Training manager. "Our team is working to create state-of-the-art training opportunities for our local first responders, which will result in a more efficient and effective regional fire service."

## No secret behind Cybersecurity program's move to online format

Hands-on labs are an important element of Macomb's Cybersecurity program, and their recent move to a virtual format has opened the door for students to earn a cybersecurity degree completely online, both during the pandemic and afterward.

"Repurposing courses to online necessitated the need to use an online lab environment with virtual systems," related Keith Nabozny, cybersecurity professor. "This has been a benefit to students (during the pandemic) in that they do not need to be on campus to use the on-campus computer lab to practice labs for class."

That gets two-thumbs up from student Danielle Madill, who has taken all but one of her cybersecurity classes online, while living in Florida.

"The hands-on labs throughout my courses really help reinforce the material," said Madill. "All of the instructors have been wonderful. If I ever had a question or needed more clarification on an assignment, they were only an email or video conference away."

While the campus closures resulting from COVID-19 prodded the development of the online labs, Nabozny said that such a move had already been in the planning stages. Even when classes return, the program will still be available completely online.

"The introductory courses in networking and cybersecurity have been generally offered online each semester," said Nabozny. "When normalcy returns, not all classes will be offered online every semester. But the upper level cybersecurity courses will probably be offered online in some fashion at least once a year to allow students who want to complete the program entirely online to do so."



SUBMITTED PHOTO

Student Danielle Madill "in class" at home. She has taken all but one of her cybersecurity classes online – while living in Florida.

And, he added, "The Cybersecurity (Student) Club switched to virtual mode last fall and is gaining traction."

Macomb's program has been designated a National Center for Academic Excellence in Cyber Defense by the National Security Agency and Department of Homeland Security. Students in the program learn how to establish a layered defense against cybersecurity threats. Courses cover risk and vulnerability assessments with professional applications and techniques, and how to safeguard corporate assets using firewalls, antivirus, encryption and other strategies.

For Madill, who intends to pursue a career as a security or risk analyst,

the program offered everything that she was looking for, and more.

"I chose Macomb for cybersecurity because of the comprehensive program courses. Many of the other colleges I looked into didn't include ethical hacking and pen testing and analysis," said Madill. "I also chose Macomb because of the transfer program with Walsh, which allows me to take more classes at Macomb and save money."

In addition to reverting to an online format, a Cloud Computing course has also been added to the program's curriculum.

"This will give our students experience working with Amazon Web Services," said Nabozny, "which is becoming more popular every day."

## Boot camps offer short path to employment

Marine Maintenance Technician is the latest "boot camp" to be offered by Macomb, providing an intensive, short-term training program based on employer demand that can lead to immediate employment.

Other boot camps offered this year include Robot Technician, Controls Technician and Industrial Maintenance Technician, completion of any one of the three can be applied to associate of applied science degree programs in Automated Systems Technology - Mechatronics, Applied Technology and Apprenticeship and Applied Technology and Apprenticeship. Robot Programmer and Remote Laser Welding boot camps are also being offered, in addition to a new Truck Driving school that will offer Class A CDL training in a boot camp for-

mat. The boot camps are opened to anyone, with financial assistance available to those who are unemployed, underemployed, or a U.S. military veteran. Boot camps are offered in both day and evening formats. Each consist of the following hours of training:

- Class A CDL Training: 160 hours
- Marine Maintenance Technician: 208 hours
- Robot Programmer: 200 hours
- Robot Technician: 488 hours
- Controls Technician: 544 hours
- Industrial Maintenance Technician: 480 hours

For more information, contact Macomb's office of Workforce and Continuing Education, Engineering and Advanced Technology, at 586.498.4108.

## Spring/Summer semester classes will help make you shine

Whether you're home from a four-year school or want to get a jump start on your next semester at Macomb, spring/summer classes are a great way to get a class or two out of the way before the fall semester.

Spring/summer classes are accelerated and shorter in duration, so you will still have time to enjoy the warm weather. And with tuition less than half the cost of that at a public university, the savings are substantial if you are a guest student.

Registration for all students begins March 31, with spring/summer classes starting May 24 and June 16. Admitted students may register for classes online at macomb.edu.

Students who have not yet applied for the spring/summer semester may do so at [www.macomb.edu](http://www.macomb.edu). Click on the Apply tab at the top right of the page. All of Macomb's 2021 spring/summer class offerings will be available after Feb. 22 under the Search for Sections on macomb.edu.

For more information, call 586.445.7999 and press 4 for Admissions.

## Six job fairs to be offered virtually in April

Macomb's Office of Career Services is holding not one, but six separate virtual job fairs in April, each targeting specific career fields.

Two job fairs will be held on Tuesday, April 20, from 10 am to noon and from 2 to 4 pm. Both will feature employers from fields related to engineering and applied technology, and skilled trades.

Two job fairs will be held on Wednesday, April 21, from 10 am to noon and from 2 to 4 pm. Both will feature employers from fields related to business, culinary arts and hospital-ity management.

Two job fairs will be held

on Thursday, April 22, from 10 am to noon and from 2 to 4 pm. Both will feature employers from fields related to information technology, and art, design and communication.

Participants in the job fairs will be able to network with local employers and discuss employment opportunities available in the community. Students, alumni and community residents are invited to attend. Participants should have a current resume available to share and dress in professional clothes.

For more information on the job fairs, or to register, contact [careerservices@macomb.edu](mailto:careerservices@macomb.edu).

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For more information about CTE, contact Shannon Williams at 586.228.3488 or [swilliams@misd.net](mailto:swilliams@misd.net)



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For more information about the MISD and the 21 school districts, go to

[www.misd.net](http://www.misd.net)

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It is the policy of the MISD that no person on the basis of race, creed, color, religion, national origin, age, sex, height, weight, marital status, or disability shall be discriminated against, excluded from participation in, denied the benefits of, or otherwise be subjected to discrimination in any program or activity for which the MISD is responsible.