

### WARREN

# Warren Woods Tower Offers Two New Career **Technical Education Classes in Computer Science**

#### **By Jewel Jhons** WWT Senior

Warren Woods Tower High School (WWT) recently enhanced their course offerings in the Information Technology career pathway by adding a new Career Technical Education (CTE) course in Computer Programming. This is a very welcome addition as technology has never been more important in our lives!

Computer Programming is now one of many CTE programs offered at Warren Woods Tower, CTE classes offer a curriculum that allow students the opportunity to gain the knowledge and practical skills needed to better prepare them for their post-secondary options in this ever-changing technological world. Thus, CTE students receive fluid and inclusive industry instruction along with current and relative hands-on learning experiences. Currently, there are two classes offered in the program, **Computer Programming** and Advanced Placement Computer Science Principles. The Computer Programming course encourages student to learn the basics of computer science and computer languages while completing fun tasks and animations. It provides students a strong foundation for understanding computer programming. Advanced Placement Computer Science Principles (APCSP) is a year-long college-level course that offers passing a national exam at we are learning about! Furthe fundamentals of com- safety of their own homes.



PHOTOS BY MACKENZIE GLASS, WWT SENIOR, AND MEGAN FINAZZO, WW1 SENIOR

APCSP students, Dominic Johnson '21 and Tylor Skrzypczak '21 work together on a coding project.



While socially distanced, Computer Programming students Jake Dutz '22, Zachary McMichael '22, and Kayla Tafanelli '23 listen to classroom instruction.

such as creating web games on these given websites and classes at WWT to their fabuilding programs them- cility to view and experiselves or with classmates (virtually or face-to-face). as 3D printers and virtual The Computer Program- reality. Former WWT stuming classes are centered dents, Adam McNeilly and around the technology that Jeffery Quesnelle, are curprovides remote learning rently working as computer and makes remote learnstudents the opportunity ing possible. We are actu- members of the advisory to earn college credit upon ally learning via the format committee. The members

solving, working with data, nect students to the busi- essential, and advice on few selected for the pro- tist was about \$122,840 per With a growing technologunderstanding the inter- ness world. All CTE pro- the curriculum. Mr. Dem- gram. Since middle school, year which is about \$59.06 ical world, it is vital that we net, cybersecurity, and pro- grams include a Program binski is looking to fur- she has been interested per hour. Linkedin.com is have more students with Advisory Committee that ther such opportunities for in the world of comput- a trusted website specialis comprised of relevant his students by expanding business partners, educa- the advisory committee tors, students, and parents. The members meet formally, twice a year, but supences when they are taught port the program throughout the year. The purpose of the Committee is to remain connected and current with the business world, to maintain a successful program, COVID-19. He shares, "The and to promote appropriate developments to the program. WWT is fortunate to have several business parttual environment." By using ners that support the prowebsites such as Code.org gram, including John Laswell from Sehi Computers and Mike Fortenberry pendently or with minimal from Extreme Networks. receive sponsorship in the guidance from Mr. Dem- For example, last year, Sehi Computers welcomed an exclusive pre-college en-

ence new technology such programmers and are also provide on-going knowlthe end course. This is a rig- ther, it has allowed students edge regarding advice on are interested in the camp projected growth rate for orous course that builds on the ability to learn from the skills companies may be must apply and gain ad- all jobs. In 2019, the median looking for, industry certi- mittance. Cora Fontana, a pay for a computer and inputing including problem CTE programs must con-fications that may become WWT Senior, is one of the formation research scien- dents throughout SMTEC. and gaining new resources for students. He is hopeful that with the online learning format he can connect with the advisory committee members to host events like Q&A sessions via Zoom and other types of mentoring to further support and connect computer science students. The Computer Programming class also connects with post-secondary learning institutions. This year up to 10 WWT Computer Programming students can AI Scholars Camp. This is work hands-on by coding computer programming richment opportunity of-



Teacher, Mr. Thomas Dembinski, simultaneously teaches both in-person and virtual students



Computer Programming student Evan Garcia, '23 is one of several WWT students who are participating in the AI Scholars Camp sponsored by Stanford Alumni and Graduate Students

and Graduate Students. The demand for high-tech jobs program aims to teach stu- that need experienced peodents how artificial intelligence can benefit our daily Bureau of Labor Statistics, lives and how to apply their the job outlook from 2019 to ideas into programming 2029 is about 15%, which is them to life. Students who 11% more than the average she has been interested per hour. Linkedin.com is ers and finds it important izing in aiding employers to broaden the numbers of and employees to find the women in the STEM field. right match for jobs, intern-Fontana shares, "I'm really looking forward to learning lationships. As of Decemhow exactly, we as people, ber 2020, Linkedin, com refeed computers new information, and how it's stored to make them smarter." continues to be a thriving field. When it comes to the also develop soft skills. As importance of coding, Mr. Dembinski believes, "Coding is a skill that is as essential as reading and writing." Students who know how to teamworking skills. Many code will have many opportunities open to them students to work with othin the future. Especially ers. While that is more difwith technology growing ficult due to COVID-19 reand becoming a part of everyday life, in the upcoming virtual and in-person stu- our future.

fered by Stanford Alumni years, there will be a high ple. According to The U.S. ships, and professional reported there are over 4,500 entry-level jobs that someone with a computer sci-Computer programming ence degree could apply for. The courses at WWT a current APCSP student, I have learned not only how to program a computer but, I've also built upon my projects assigned require strictions and the split of

dents, Code.org makes it extremely easy to work with our peers from the safety of our own homes or even six feet apart! Many students in the Computer Science program recommend that their colleagues enroll in the program because of its pleasant educational aspects such as easy-going lessons and engaging tasks. Senior Hudson Mizgalski expresses, "Not only is it an enjoyable class, but the information we learn is also very useful in a world filled with technology." Even if a student does not intend to continue in the computer science path to earn a degree or a certification, they will have the knowledge and skills to be tech-savvy in this developing technological world.

WWT is fortunate to be part of the Southwest Macomb Technical Education Consortium (SMTEC). SMTEC school districts include Center Line, Fitzgerald, Van Dyke, and Warren Woods. These districts share their CTE programs. High school students from these school districts are eligible to be transported during the school day to attend a CTE class sponsored by SMTEC. Unfortunately, due to COVID-19, students from the other districts are not being transported this year due to safety reasons.

Mr. Dembinski hopes to expand the program beginning with the students. By implementing new additions to his classes, he can make the classes more enriching for the students. There are currently over 100 students enrolled in the **Computer Science Program** and he hopes to increase that amount next year with WWT students and stuhave more students with the skills and knowledge to lead the way to technological growth. As we have all realized, we have become especially dependent on technology during the current global pandemic; technology has never been more important in our lives. It keeps us connected to others, it fosters education, it keeps the economy afloat, and more. We need to continue to promote more interest in computer science so that we can better evolve the technology we have to produce progressively more efficient technology for our daily lives. The computer science students of today will become the essential inventors and reformers of

net, cybersecurity, and programming.

Many of our CTE programs have been affected by COVID-19. It has been a challenge for students to receive hands-on experiremotely. WWT instructor, Mr. Dembinski, considers the Computer Programming classes at WWT to be the least affected by majority of the work these classes require are online which lends itself to a virand CodeHS.com, many assignments can be done indebinski. Students are able to

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## Southwest Macomb Technical Education Consortium Course Offerings

SMTEC (Southwest Macomb Technical tion Education Consortium) participants include Center Line, Fitzgerald, Van Dyke, and Warren Woods Public Schools offers the following courses in career & technical pathwavs:

ARTS & COMMUNICATIONS: Graphic Communications, Digital Media Produc-

BUSINESS, MANAGEMENT, MAR-KETING & TECHNOLOGY: Accounting/ Finance, Business Management, Computer Programming/AP Computer Science Principles, Marketing & Merchandising, Sports & Entertainment Marketing

ENGINEERING, MANUFACTURING

tomotive Technology, Heavy Equipment cal Terminology, Nursing Assistant, Phar-Technology, Mechanical Drafting/CAD, Manufacturing Technology, Welding

HEALTH SCIENCES: Anatomy & Physiology for Health Careers, Dental Assistant, Emergency Medical Technician, Health Career Explorations, Medical As-

AND INDUSTRIAL TECHNOLOGY: Au- sistant, Medical First Responder, Medimacy Technician, Physical Therapy Technician

> HUMAN SERVICES: Cosmetology, Culinary Services, Educational Careers Program, Firefighting, Law Enforcement, JROTC

Anchor Bay Schools Armada Area Schools **Centerline Public Schools Chippewa Valley Schools Clintondale Community Schools** Eastpointe Community Schools Fitzgerald Public Schools Fraser Public Schools Lake Shore Public Schools Lakeview Public Schools L'Anse Creuse Public Schools Mount Clemens Community Schools New Haven Community Schools

For more information about CTE, contact Shannon Williams at 586.228.3488 or swilliams@misd.net



**Macomb Intermediate School District** 44001 Garfield Road Clinton Township, MI 48038 586.228.3300

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

www.misd.net

**Richmond Community Schools** Romeo Community Schools **Roseville Community Schools** South Lake Community Schools Utica Community Schools Van Dyke Public Schools Warren Consolidated Schools Warren Woods Public Schools

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