

Shawn Volk – Lead Instructor and Math Instructor
Chris Choudoir – Science and Bio-Medical Sciences Instructor
Dan Van Eperen – Humanities Instructor

Jon Larson – Engineering and Manufacturing Instructor
Kevin Pratt – School to Career Liaison and Counselor
Amy Vander Zanden – LCCPA Administrative Assistant

Student Spotlight: Gabe Dove



What was your initial attraction to the LCCPA?

Work at my own pace. You can work ahead, I liked how you could select a pathway and get extra classes in that field. I am in the health career pathway.

Now that you are in the LCCPA, what do you like most?

I like my Project Lead the Way course-Principles of Biomedical Science. I also like the idea of working independently and then having the option to work with others, suits me well.

What are the biggest challenges you face in the LCCPA?

The rigor/challenge of my courses, but it is a good challenge.

What do you miss the most about not being in the high school?

Not having as much class time with some of my friends.

What do you foresee as the greatest advantages to being in the LCCPA?

The career experiences, college visitations and the ability to work ahead in class.

Words of wisdom for the incoming freshmen as they consider attending the LCCPA?

Don't let the thought of missing your friends stop you from applying to the LCCPA. You will keep your old friends and make new ones. I was worried that I wouldn't be able to take elective classes through LCHS which is not true. I will take several classes along the way at LCHS.

How do you spend your time outside of school?

I am in the play, CYO, Destination Imagination and Key Club. I like to play baseball, football and other outside activities.

Gabe is the son of Mindy and Greg Dove. Gabe has a younger brother Garit and sister Chloe and his dog Pepper.

Project Lead The Way Update: Medical Interventions



Microscopic view of two cancer cells. Note the enlarged size, irregular shape, and enlarged nucleus.

The medical intervention students are currently wrapping up the first lesson of our cancer unit: detecting cancer. Students began by first analyzing how cancer forms in the body. Next, students began to assess how cancer is detected via diagnostic imaging. Following the survey introduction to CT scans, x-ray, MRI, and bone scan, we began to focus on genetic diagnostics. First, the students were introduced to DNA Microarray technology, a method for assessing genes induced or suppressed during tumor formation. Second, the class learned how to calculate correlations between specific genes and cancer formation. This lesson proved to be challenging conceptually and mathematically, but the students did an excellent job working through the material.

The next lesson focuses on reducing the risks of cancer development. Future activities and projects include Am I at Risk?, Skin Cancer Prevention, Breast Cancer Screening and Prevention, Virology Career Study, and Routine Screenings.

Partner Spotlight: Bemis

by *Elijah Sprague (2017)*

This fall, the first year manufacturing students went to Bemis for a factory tour. Bemis is a company that makes packaging and is the largest packaging manufacturer in the country. The purpose of this trip was to get a better understanding of the different tasks and expectations of the workforce. Another purpose was to see more engineering disciplines and how they relate to the world outside of school. For instance, chemical engineering plays a big role in Bemis, and one of the things that makes the company unique is their innovations in packaging.

Our day was divided into three parts: a grocery store tour, lunch, and a factory tour. During the grocery store tour, two Bemis representatives brought us through and showed us everything they packaged. They explained to us why and how certain packages are made differently. After the tour, we went to lunch for an informational video and an opportunity to ask the representatives questions about the skills and qualities they look for when hiring new employees. The final thing we did was tour their facilities, which was the most fun for me. It was interesting to see all of the different processes involved in packaging.

This trip benefitted the manufacturing students in many ways such as allowing us to see what a day in the life was like for these employees. This was important because many of us will have jobs like these one day. Also, we learned from Human Resources what they look for in new employees. Finally, it was interesting to learn about all of the work that goes into flexible packaging. Thank you to all of the Bemis Employees for showing us your facilities and answering all of our questions.



Higher Education Connection: Engineering 105

Senior Ben Verbruggen, and juniors Allison Vandenberg and Hannah Dornfeld recently became the first LCCPA students to complete *EGR 105 Engineering Fundamentals* at UW Fox Valley. The purpose of this course is to “equip engineering students with the necessary tools and background information to prepare them to be successful engineering students as well as a successful practicing engineer.”

Completing this course was an excellent opportunity for our students. As Ben said, “It is a really cool experience to be able to be in a program like this that truly shows you exactly like what a normal college class is like.”

The students were involved in a variety of extensive projects, including designing and building a trebuchet as well as designing a wind farm, that tested their problem solving and project management skills as well as their ability to work through difficulties.

Allison summed up the benefits that the students realized from this class very well. “Taking this class is such a cool opportunity for us! The most important skill I have learned is to not overanalyze things and to stay calm. When something goes wrong or you can't understand something, freaking out is not the way to fix it. It is not the end of the world. Sometimes your problem has a simple solution, and you need to take a step back, take a deep breath, and look at the bigger picture to find the solution. I learned that I shouldn't doubt myself. I can figure out the answer, even though it is difficult. I also learned to be more positive by looking at the bigger picture.”



Important Upcoming Dates

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| Sunday, January 25 th | LCCPA Family Preview Night | [6:00 – 7:30 PM, LCHS Auditorium] |
| Tuesday Feb 17 th | LCCPA Advisory Board Meeting | [3:30-4:30 PM] |
| Thursday April 16 th | LCCPA Partner Breakfast | [7:30 - 9:30 AM] |
| Wednesday, April 22 nd | LCCPA Advisory Board Meeting | [3:30-4:30 PM] |