ADVANCED TECHNOLOGY ACADEMY

A Career Academy featuring the Ford NGL Framework

ATA's Career Pathways - Business, Health Care, and Engineering/Technology (STEM)

Chartered by

LAKE SUPERIOR STATE UNIVERSITY

Featuring

FORD NEXT GENERATION LEARNING
Education Innovation

Concurrent College Enrollment Provided By

LAKE SUPERIOR STATE UNIVERSITY

DAVENPORT UNIVERSITY

EASTERN MICHIGAN UNIVERSITY

M DEARBORN

HENRY FORD COLLEGE

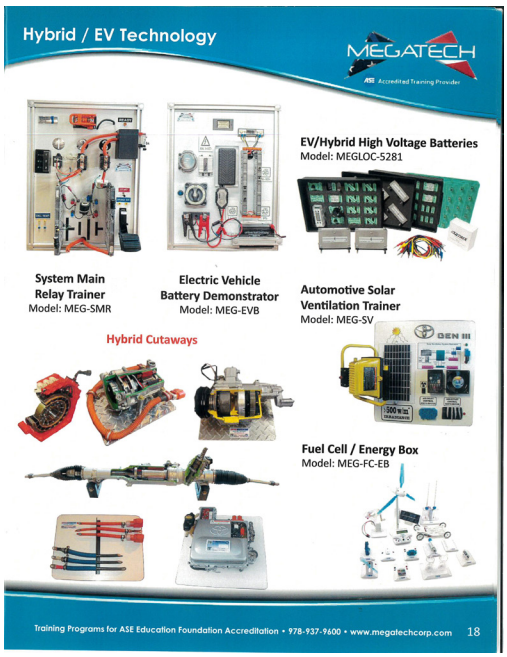
ATA MISSION

To provide students with high-quality interdisciplinary learning experiences that challenge them academically and develop their problem-solving, critical thinking, and communication skills. By building strong local partnerships with business and higher education, Advanced Technology Academy and our Ford PAS Business Education Advisory Council encourage and prepare students for success in college and professional careers in fields such as business, engineering, and technology.

REVISED NOVEMBER 2023

ATA Plans Expansion of STEM Programming to include Hybrid & EV Vehicle Technology

In Fall, 2024, ATA plans to offer classes in hybrid and electric vhicle equipment, sensors and controls, automotive battery components and operation. These classes will be an extension of our existing STEM program which includes the Mechatronics-Multi Skilled Manufacturing Lab.



Henry Ford College President Leads 2021 High School Graduation Ceremony

Russ Kavalhuna Ph.D., Henry Ford College President, was the keynote speaker at the commencement ceremony. Dr. Janice Galliland, Dean of Henry Ford College STEM Department also provided remarks and presented the ATA Early Middle College Graduates. These eight ATA students earned associate degrees while in high school at no cost to students. The Valedictorian of the High school will be attending the University of Michigan this fall and the Salutatorian will attend Michigan State University. Dr. Russ Kavalhuna also received an Honorary Diploma from ATA during the ceremony.

Advanced Technology Academy
4801 Oakman, Dearborn, MI 48126-9805 • www.atafordpas.org • 313-625-4700

Dedication of Mechatronics Lab

Wednesday, August 26, 2016 marked the celebration of Advanced Technology Academy's newly built Mechatronics program in honor of one of its founding board members, Richard Schneider Ph.D., past School Board President. This program teaches students how to become a Mechantronic Technician which enables them to provide support to mechanical engineers, modify machines, and provide maintenance for related equipment in advanced manufacturing companies. Mechatronics is a field that combines mechanical engineering, electronics, computer technology, and information technology.

Richard Schneider Ph.D.,
Past ATA School Board President

Several of Michigan's and Advanced Technology Academy educators led the ceremony of the newly constructed Mechatronics program donated by Henry Ford College. ATA was honored to have Mr. Quizenberry, President of Michigan Association of Public School Academies, and Dr. Stan Jensen, Henry Ford College President as the key note speakers of the event. Several Academy representatives provided attendants with an overview of the Academy's history. Central among the messages presented was the commitment and loyalty of Dr. Schneider to the Academy and his contribution as the longest serving board member.

Through the completion of the Mechatronics program, participating students will gain an introductory foundation to training in hydraulics, pneumatics, motor control, AC/DC electrical systems, welding, mechanical drives and more. High school students that successfully finish the program will earn a certificate of completion, gain industry exposure to cutting-edge field experiences, and network with industry leaders. The end goal of the program is that students will register into Henry Ford College's MAT2 program, resulting in a job with a major manufacturing plant in Michigan.

MECHATRONICS PROGRAM EQUIPMENT

2 – Amtrol Fluid Power Trainers – 85-P1 & 85-H1
2 – Amatrol Electrical Trainers – T7017a, 950 ELF1, T7018, 17530
2 – Amatrol Motor Control Trainers – 85-MT5 & 85-MT5C
2 – Amatrol Mechanical Transmission Trainer – 950-ME1SB & 950-ME2A
8 – Seabury Soldamatic Welding Simulators
2 – Amtrol PLC Trainers
1 – AMTEC Integrated Manufacturing System Simulator

Mechatronics Career Pathway

In order to address the "oncoming tsunami" of a skilled workforce deficit in the automotive industry that is projected to reach millions in the next decade and to prepare students to be productive, hard working citizens, Advanced Technology Academy has partnered with Henry Ford College to establish a new career pathway in Multi-Skilled Manufacturing Maintenance / Mechatronics. This program will provide badly needed hands-on technical training to Advanced Technology Academy students and adults who reside in SE Michigan.

The program is designed to provide hands-on real world technical training on various areas of manufacturing and mechatronic systems and equipment. Students will engage in practical instruction using training stations in the Academy's Mechatronics Lab.

Students will also experience Coordinated Learning Experiences (CLE's) geared towards the Mechatronics program such as the Ford Rouge and Dearborn Assembly Plant tour. The assembly plant is ideal for demonstrating advanced manufacturing process in an applied setting. The CLE's will reinforce and deepen students understanding of engineering technology principals and concepts in the Mechatronics certificate program.

MECHATRONICS COURSE SEQUENCE

(2-Year Program)

FIRST YEAR CURRICULUM

	COURSE	CREDITS
FALL	TAFD120 - Industrial Safety Awareness	2
	TAEL103 - DC and AC Electricity	3
SPRING	TADV100 - Basic Print Reading	2
	MTT100 - Machine Tool Processes I	4
	TAEL106 - Electronic Theory	3

SECOND YEAR CURRICULUM

	COURSE	CREDITS
FALL	TAFP150 - Intro to Industrial Hydraulics	4
	TADV125 - Intro to Integrated Manufacturing	1
	TAFP160 - Pneumatic Power & Control	4
SPRING	CIMTA112 - System Technology	1
	TAMT110 - Mechanical Power Transmission	2
	MTT140 - Introduction to CNC	3
	TAEL235 - Programmable Logic Controller (PLC)	3

HIGH SCHOOL STUDENTS MUST TAKE HENRY FORD COLLEGE INSTRUCTOR'S FINAL EXAMINATION FOR ALL COURSES

Through a Partnership with Ford, These Detroit Students are Getting Hands-On Experience

Written by Vaughn Springer - Feb 24, 2021 4:25:05 PM - Charterschools.org

Nestled in Dearborn, less than 15 minutes from where the first Ford automobiles were built and just blocks from the current Ford Rouge Complex sits Advanced Technology Academy (ATA), a pre-k through 12th-grade charter school. For more than 20 years, ATA has stood by their mission to create well-rounded students through the help of strong relationships with local businesses and community leaders. The strongest of them all with Ford Motor Company.

In 2007, Ford launched their Ford Partnerships for Advanced Studies (PAS), a curriculum that infuses students with knowledge through hands-on experiences in fields from engineering to marketing to accounting to mechatronics. ATA was one of the first schools to adopt this curriculum with Cynthia Andersen, now the Career and Technical Education and Early Middle College Director, being one of the first Ford PAS educators in the state of Michigan. This was just the beginning of a long relationship with the company.

ATA students' education extends far beyond the classroom. With the Ford Rouge Complex being so close, they can get involved with a variety of different people there. The Ford Volunteer Corps has come to enhance ATA's campus building three different playgrounds, a greenhouse, and a weather station where you can see live weather updates online! Students have traveled to the plant to get tours, taken internships with Ford Motors, and had mentorships with the IT department. However, there are a few opportunities that stick out more than others.

"We have done a program called 'lunch with an executive' where students are invited to the Ford headquarters to have a luncheon in the executive board room with high-level executives like the Vice President of Quality and New Product Launch. It includes lunch and an informal conversation about how they got into these roles. We have a high African American population and both the executives we've worked with were African American as
well. It's inspiring for our students to see people that look like them in high-level positions." - Cynthia Andersen, CTE and EMC Director

Another opportunity for students has been through career readiness assistance. From writing resumes and cover letters to helping students prepare for interview questions. After all this, they conducted mock interviews with students to see what they learned, helping them improve for the future. The business students develop business plans that are looked over by various managers - some of the plans have even sparked conversations around what it looks like to invest in a business! Ford even set up a career fair for ATA students showing all the career fields that are possible within their company.

While the main connection has been with Ford Motor Company, many other relationships have formed because of it. Kevin Ford, who was the Engine Plant Manager before retiring, joined ATA's board of directors and now advocates and invests in ATA students. He was instrumental in the development of their $1 million mechatronics lab, which includes an auto plant simulator, in partnership with Henry Ford College. The Henry Ford Health Systems (HFHS) internship through the Ford PAS has created a relationship that allowed ATA to provide a space for COVID-19 testing in their fieldhouse. HFHS also established a program to teach students of all ages about nutrition and cooking which expands to a personal trainer program in the high school. Additionally, as students start to return to campus this spring and in the future, HFHS will place a nurse on campus throughout the week to make sure students are healthy and safe in their learning environment.

The future of the programs Advanced Technology Academy and Ford collaborate on are endless. The automotive industry is constantly growing and changing. Right now, the big thing on everyone's mind is sustainability. Cynthia Andersen hopes to see students getting involved in the development of electric cars in the coming years, mentioning a story of a man using his Ford F-150 onboard generator to power appliances during the recent Texas winter storms. Those are the types of things she wants to see students working on. As for Steve Quinlan, Director of Institutional Advancement at ATA, his visions are closer to home.

"Ford is really passionate about sustainability. In their recent renovation, they put up a living roof to collect stormwater, implemented zero waste to landfill, and reduced the amount of water they use while painting. I'd like to get them involved in a solar program on campus. Putting up solar panels for demonstrations for students and classes, but also help us reduce our energy use." - Steve Quinlan, Director of Institutional

FORD FUND NEXT GENERATION LEARNING RETROSPECTIVE

Ford Motor Company Fund President Leads Dedication of ATA's New Charter School Campus in Dearborn

Source Dearborn Press & Guide, Sunday, May 24, 2009

Jim Vella, president of the Ford Motor Co. Fund and Community Services, provided the keynote address to community and education leaders as part of a dedication of the new campus of Advanced Technology Academy (ATA), a charter public school authorized by Lake Superior State University (LSSU).

The academy purchased the Dearborn campus of Davenport University in the summer of 2008, which allowed the school to expand its career pathways to include business, engineering, health care and technology.

The dedication ceremony took place at Tuesday, May 27th 2009, followed by an open house for the public. The luncheon program preceded a ribbon cutting ceremony with Dearborn Mayor Jack O'Reilly, members of the Dearborn City Council and the Dearborn Optimist Club.

In addition to Vella's keynote address, the program features remarks by the president of LSSU, Dr. Rodney Lowman; Dearborn Mayor, John O'Reilly; and ATA Board President, Dr. Richard Schneider.

"The demands of the 21st century require innovative and creative methods of teaching and learning, so that students experience both academic and professional success," Vella said. "ATA delivers this through its partnership with Ford and its use of the Ford Partnership for Advanced Studies program. Ford is proud to support organizations like ATA because they develop programs and initiatives that address critical needs, with a focus on helping communities become more sustainable places to work and live"

Cynthia Andersen, Principal of Advanced Technology Academy, said, "The cornerstone of the academy is the Ford Partnership for Advanced Studies. ATA is the only school in the nation to center its curriculum on the Platinum Implementation Model of the Ford Partnership for Advanced Studies curriculum. This unique program is offered in conjunction with University of Detroit Mercy and was recognized by the National Governor's Association through its public-private partnership award in 2007."

ATA Executive Director, Barry Hawthorne, said the celebration comes on the heels of a "U.S. News & World Report" award, where ATA was recognized with a Bronze Medal Award in its second annual listing of "America's Best High Schools." The publication's editor, Brian Kelly said in a letter to ATA, "America's Best High Schools" recognized three categories of distinction: gold, silver, and bronze. Analysis was based on standardized test performance,proficiency rates of all students including the least advantaged, and challenging college ready curriculum."ATA Board President, Dr. Richard L. Schneider, said Tuesday's celebration followed recognition from the Michigan Department of Education and State School Board on Jan. 9 that said, "it is encouraging to see the dedication and devotion that your school has demonstrated in student achievement, class offerings, and college readiness. The state of Michigan is richer for your efforts and educators like those at your school are the cornerstone to a brighter future for our state."

Schneider added that ATA was also recognized for "Beating the Odds," because the 2007-08 MEAP test data revealed Advanced Technology Academy was among 52 charter schools across Michigan that achieved more than 60 percent academic proficiency with populations made up of economically disadvantaged students.

This past school year the academy received accreditation through the year 2011 by the North Central Commission on Accreditation & School Improvement (NCA CASI-AdvancED). The academy has been continuously accredited since 2005. In 2002, ATA received the Silver Medal Award for school/college partnerships from the Council for the Advancement and Support of Education (CASE) Hawthorne said the academy offers a unique concurrent college-enrollment program with several colleges and universities including Davenport University, Henry Ford Community College and LSSU.

"Bridging the gap between high school and college, students are able to earn up to one year of college credit while obtaining a high school diploma," he said.

The academy is committed to providing its students with the finest in curriculum, facilities, and cutting edge technology. With the motto "High Standards for, High Achievement," ATA can deliver a world-class curriculum on a college campus setting.

The 15 acre site comprises a 130,000 square-foot academic building and a 15,000 square-foot administration building.

FROM L-R - Julie Turla, Dan Quisenberry, Kathleen Buda, Nancy Hubbard, Mayor John B. O'Reilly, Barry Hawthorne, Suzanne Sareini, George Delaney, Jim Vella, Dr. Rodney Lowman, ATA Students.

NGA Public-Private Partnership Award

The National Governors Association (NGA) Public Private Partnership Award was established in 2007 and recognizes NGA Corporate Fellow companies that have partnered with a state to implement a program, project or service that positively impacts its citizens.

Each fall, all governors are invited to nominate a Corporate Fellow company for work in his or her state that demonstrates a significant investment at the state level to perform a public good in areas such as education, health, public safety, and the environment.

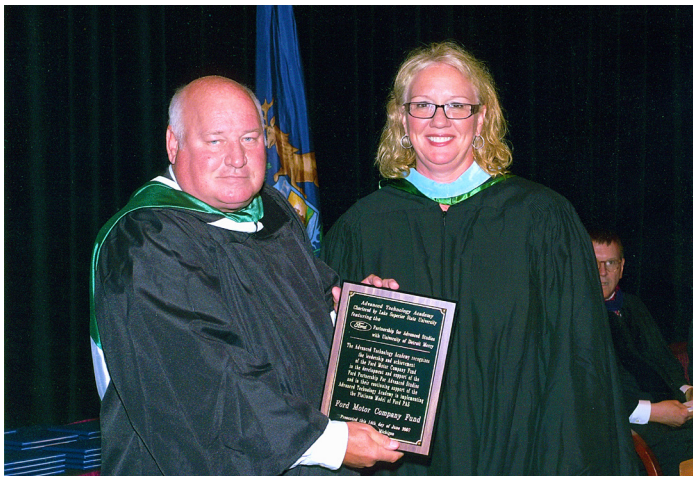
Ford Motor Company, nominated by Michigan Gov. Jennifer Granholm, won the award for its work in the field of education and the development and growth of the Ford Partnership for Advanced Studies (Ford PAS) program. Launched in 2004, by Ford Motor Company Fund, the philanthropic arm of Ford Motor Company, and developed in collaboration with Education Development Center, Inc., Ford PAS is a high school curriculum for the 21st century. The program is designed to engage and excite students in business, science, technology, engineering, design and math while building critical problem-solving and innovative thinking and learning skills.

Public-Private Partnership Award recipients: Cheryl Carrier (Program Director, Ford PAS, Ford Motor Company) and Ziad Ojakli (Group Vice President for Government and Community Relations, Ford Motor Company) with Gov. Granholm

Representatives of the National Governors Association and the Ford Motor Company Fund visit the ATA Ford PAS Program. From left to right: Barry Hawthorne, Academy Executive Director; Kevin Sillard, NGA Director of Corporate Relations; Cheryl Carrier, Ford Motor Company Fund; Dane Linn, NGA Eduction Director; Richard Delano, Ford PAS Consultant; Cynthia Andersen, ATA High School Principal

Cheryl Carrier, Ford PAS Program Director, Ford Motor Company Fund Receives Distinguished Service Award

On behalf of the Ford Motor Company Fund, Mrs. Cheryl Carrier, Ford PAS Program Director, accepts the Distinguished Service Award from ATA at their 2007 High School Commencement Ceremony for the leadership and support in the development of the Ford PAS educational program and the continued dedication in helping ATA implement the Platinum Model of the Ford PAS Curriculum.



Ford Human Resources Vice President Receives Honorary Diploma

Ford Motor Company Group Vice President Of Human Resources & Corporate Affairs receives an honorary diploma for her continued efforts to enhance the educational community and support of ATA's educational mission and goals.

Commencement Speaker Felicia Fields receives the Honorary Diploma of the Advanced Technology Academy from board of directors member Diane Thompson and Executive Director Barry Hawthorne.

Ford Motor Company Group, Vice President of Human Resources & Corporate Affairs, Addresses Graduates at the 2008 Commencement

During the 2008 ATA High School Commence Ceremony, Ford Motor Company Group VP of Human Resources and Corporate Affairs, Felicia Fields addressed the students and parents and said, "Driving the mission of the Advanced Technology Academy is its relevant and rigorous curriculum. Through the fusion of the Ford Partnership for Advanced Studies and college courses offered through Lake Superior State University and Davenport University, ATA has allowed students to earn free college credits while still in high school. At the same time, these dual-enrolled courses provide a level of challenge for students to keep them actively engaged in school throughout their high school careers, while preparing them for their post-secondary experiences."

Ford Motor Company Group Vice President of Human Resources & Corporate Affairs, Felicia Fields addresses graduates and their families at the 2008 commencement.

ATA Commencement Stage Party: Ford Group Vice President - Felicia Fields, with Cheryl Carrier and Janet Padilla of the Ford Motor Company Fund, President of Fairlane Ford - Julie Turla & Judge Wade McCree III join ATA Board Members & Administrators at the 2008 Commencement.

ATA Featured in "How Ford Drives America" Television Broadcast

Advanced Technology Academy was featured prominently on the one-hour Ford Motor Company television broadcast of "How Ford Drives America. . . An Inside Look at the Ford Motor Company". The broadcast ran on WXYZ TV Channel 7 during prime time, 8:00 PM to 9:00 PM on Tuesday, September 29th, 2009. The ATA segment was hosted by JoAnne Purtan and featured ATA senior students Eboni Graves and Jaylen LaGrande. ATA Executive Director, Barry Hawthorne, explained the school's implementation of the Ford Partnership for Advanced Studies. Mr. Hawthorne credited Ford PAS with ATA's success, including ATA's recent Bronze Medal award by US News & World Report as one of America's Best High Schools. Mr. Hawthorne stated that "Ford Motor Company not only helps build communities but it develops students to be the best skilled workforce for the 21st century." JoAnne Purtan explained that Ford PAS is now in 411 sites in 21 states. This broadcast is posted on the opening page of the ATA website at www.atafordpas.org.

Advanced Technology Academy Named One of Three Finalists for Charter School of Excellence Award

On September 17, 2010, Advanced Technology received notification that it was named one of the three finalists for Michigan Association of Public School Academy's (MAPSA) School of Excellence Award! According to Keri Brown, MAPSA Program Coordinator, a nomination for this award reflects a proven demonstration of providing excellent education opportunities for Michigan children.

Alisha Meneely, MAPSA Outreach Director, and two of MAPSA's last year's award winners for the School of Excellence and Teacher of the Year conducted a site visit at the Academy on September 21, 2010. They toured the campus, visited classrooms, observed 21st Century programs and practices, and interviewed administrative staff, faculty and students. The Academy's Chief Executive Director, Barry Hawthorne remarked, "It is a honor to receive this recognition for the Academy's efforts in delivering a relevant and rigorous curriculum to its students." Dr. Richard Schneider, President of the ATA Board, said, "Congratulations are in order for the faculty and students for demonstrating their commitment to high standards and high achievement."

MAPSA announced the winning Charter School of Excellence Award at its 13th Annual Michigan Charter School Conference at Detroit's Cobo Center on November 2, 2010. While the Academy did not receive the top honor, MAPSA recognized ATA as a 21st Century Miracle Worker in Michigan education. MAPSA presented Barry T. Hawthorne, ATA Chief Executive Director, with a certificate to honor the Academy's accomplishments and commitment to improve educational opportunities for Michigan students.
Advanced Technology Academy administrators and faculty attended the conference, which featured over 125 breakout sessions on best practices in instruction, assessment and achievement. Hannah Jorgensen, Director of Academic Affairs and Initiatives, said, "MAPSA is a highly recognized organization that provides rich professional development opportunities for educators and administrators. ATA's faculty will bring new research-based instructional approaches to their classrooms. Student achievement will be positively impacted this year as a result of our administrators and faculty attending this important conference." According to Gary G. Naeyaert, MAPSA Vice President of Public Relations & Legislative Affairs, the annual MAPSA conference is one of the largest gatherings of charter school professionals in the nation, with nearly 2,500 participants for this year.

MAPSA's annual Charter School of Excellence Award, founded in 1999, recognizes outstanding schools that help students make significant academic and personal progress. Charter Schools of Excellence finalists have shown outstanding leadership not only within the charter movement but within the entire educational system. Winners are chosen based on strong academic initiatives, and proof of achievement and practices that have been adopted by or prompted improvement at other schools.

Nominations for this award are submitted annually by charter teachers, parents, students, board members, school leaders, service providers and authorizers. MAPSA represents more than 110,000 students and 5,000 certified teachers in 247 public charter schools across the state.

Receiving the School of Excellence 2010 Finalist Award from Dan Quisenberry - President, Michigan Association of Public School Academies are Barry Hawthorne - ATA Executive Director and Richard Schneider Ph.D. - President ATA Board of Directors.

2010 Ford PAS Next Generation Learning Community Symposium

Ford Partnership for Advanced Studies hosted a symposium in Detroit on October 14 – 15, 2010. The goal for the symposium was to provide all Next Generation Learning Communities (NGL) with the opportunity to delve deeper into essential practices and framework of Ford PAS. Bringing NGLs to the next level requires increased community networking and creating more opportunities for students to gain relevant real-world experiences before their post-secondary careers begin. Based on the discussions in work groups, Advanced Technology Academy reaffirmed its commitment to continue to incorporate more authentic learning activities into its curriculum; including internships, meetings with business leader for students, and externships for teachers. The Academy's administrators discussed strategic actions that will continue to strengthen their partnerships with Davenport University and Lake Superior State University.

Ford Volunteer Corp. Awarded Distinguished Service Award by ATA

On behalf of the Ford Volunteer Corp., Ms. Terry Berry, manager of the Ford Volunteer Corp. Model Teams Program, accepts the Distinguished Service Award from ATA at their 2011 High School Commencement Ceremony for the continued support and volunteer efforts they provide that enhance the teaching and learning efforts of the Advanced Technology Academy.

Ford Motor Company / Ford Motor Company Fund Nominated for the 2014 Governor's Service Award

Ford Motor Company/Ford Motor Company Fund in Dearborn has been improving lives for 110 years through its automotive products and investment in its communities. The company's founder, Henry Ford, understood his company was only as strong as the community in which it did business. The Ford Motor Company Fund was founded in 1949 so Ford could use company profits to support programs in the communities where Ford employees are located. Focusing on the areas of education, community life and safe driving, Ford has donated more than $60 million to southeast Michigan in the past five years alone. The Ford Fund also provides 500 scholarships each year for students to pursue educational goals. The Ford Volunteer Corps was created in 2005 to get Ford employees engaged in community service. In 2013, volunteers contributed 33,892 hours to Michigan non-profits. Ford also is concerned with automobile safety, and formed Ford Driving Skills for Life to teach young drivers safe driving skills. During 2013, more than 9,000 students had hands-on instruction by professionally trained drivers.

Steve Quinlan, Hannah Hawthorne, and ATA Board President, Diane Fuselier-Thompson with Michigan Governor Rick Snyder at the 2014 Governors Service Awards banquet hosted by Ford Motor Company - June 30, 2014.

Dedication of ATA's NEW S.T.E.A.M. Center & Workforce Development Center

Kirko Manix and Meiloch Architects assisted ATA with the redesign and build-out of the existing Library / Media Center. This provided the Academy with adequate space to expand ATA's technology wing and Workforce Development Center and will also allow the Elementary School to have four classrooms in each grade.

The new ATA S.T.E.A.M. Technology Wing and Workforce Development Center officially opened on Wednesday, November 12, 2014 with a ribbon cutting ceremony. The S.T.E.A.M. wing is built around the Ford NGL (Next Generation Learning) Science, Technology, Engineering, Art and Math Programs. The event was held in conjunction with the LSSU Southeast Michigan Charter School Conference and was cosponsored by the Dearborn Optimist Club.

Invited to the ribbon cutting were representatives from Lake Superior State University, Davenport University, Henry Ford College, Eastern Michigan University, and Project Lead the Way (PLTW). Representatives from the ATA Board of Directors, the BEAC (Business Education Advisory Committee), Henry Ford Health System, Ford High School Program Partners, Ford NGL, Ford Volunteer Corp, Focus Hope, Access, JVS and Dearborn community leaders were in attendance.

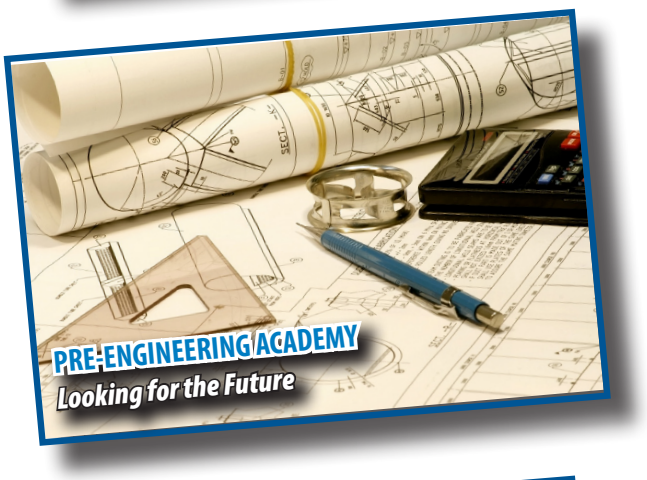
The new Technology Wing and University Career Center is a central part of the Ford NGL Master Plan. The Ford Fund and Community Services technical assistance has enabled the Academy to restructure its curriculum to insure that the graduates are college and career ready.

FORD NEXT GENERATION LEARNING MASTER PLAN FOR EDUCATION TRANSFORMATION

The Ford Fund and Community Services technical assistance has enabled the Academy to restructure its curriculum to insure that the graduates are college and career ready.

Under the leadership of Cynthia Andersen, Hannah Hawthorne and Ford NGL representatives, a collaborative process of developing a 3-year master plan based upon the Ford NGL framework to address academic achievement and college and career transitions took place throughout the 2012 – 2013 school year. This master plan presents the vision, mission, values and goals of the Advanced Technology Academy of Business and Academy of Pre-Engineering (STEM). The master plan calls for career academies in the areas of STEM and Business for the 2013 – 2014 school year and a plan to add two new additional academies in 2015 – 2016 in Health Care Management and Public Safety.

The career academy master plan reflects a cooperative design perspective from Academy administrators, faculty members, parents, students, local business leaders and post-secondary institutions. By including dual / concurrent enrollment opportunities for career classes, this initiative directly supports ATA's other endeavors to extend the high school program to offer a 13th year of school and meet NACEP Accreditation requirements.



ATA's Career Academy Vision

ATA Career Academies seek to drive the future with innovative academics; inspire students to own their future; infuse learning with diverse and exciting career opportunities; demand high standards for high achievement; and engage stakeholders to support students.

ATA's Career Academy Mission

ATA Career Academies prepare students for the real world by providing them with tools for success in their careers and post-secondary education. These tools enable students to have the 21st century skills necessary to compete in a global economy. Through a blended instructional approach students participate in lessons that teach them how to be profitable citizens and financially literate. Students are also exposed to careers through experiential learning activities.

Participating students are personally responsible for their education through the establishment of their own learning plans. These plans will be closely monitored by the student and their high school guidance counselors. This unique approach to education will be sustained though small class sizes. Lessons are taught through an inquiry based model, thus engaging students further into learning process as they seek out knowledge they are personally interested in.

Community engagement and support in the program is an essential component to its success. Teachers, community stakeholders, and parents actively participate in the program as mentors to students. Through active engagement with community member and in their educational process students self esteem is elevated as they achieve their individual learning goals. The key factor in making this model sustainable is that the community members hold teachers in high regard and provide them with the resources required to educate students. Some of these resources include but are not limited to: mentorships and internships for students, business advice from community stakeholders and externship activities for teachers.

Tenets of the ATA Career Academy Model

The Advanced Technology Career Academies focus on 4 tenets of instruction:

PERSONALIZATION

- Each student has an advisor who monitors and advises them and is a key contact to the family
- Students pursue their interests through projects and put their best work into their personal portfolios
- Activities are collaborative and require hands-on work; students use critical thinking and problem solving techniques
- Students exhibit their work to the Academy, community and industry stakeholders
- Students learn through differentiated instruction, exposing them to a hybrid of approaches

ADULT WORLD CONNECTION

- In addition to classroom instruction, learning takes place outside the classroom in internships and group community projects.
- Students shadow adults in the workplace
- The Career Academy simulates for its students a high-tech workplace with wireless collaborative spaces and posted work projects

COMMON INTELLECTUAL MISSION

- Curriculum is rigorous, and there is no distinction between college preparatory and technical education
- Assessments are in the form of both problem solving projects as well as traditional state/local examinations
- A student's education culminates in a senior project and personal portfolio

TEACHER AS DESIGNER

- Teachers have autonomy to work in collaborative interdisciplinary teams to develop programs that benefit their students
- Teachers' schedules include time for cooperative planning, team teaching, project-based and work-based learning and interaction with outside stakeholders (www.education2020)

FORD NGL NEGOTIATIONS

Advanced Technology Academy is in negotiation talks with Ford Next Generation Learning Communities. A contract has been received outlining what ATA's commitment would be to the Ford Next General Learning principles and in turn Ford NGL's available resources given to ATA through their network of community members throughout the United States. Steve Quinlan, Director of School Advancement, will be the point person for the financial agreement. Hannah Hawthorne and Cindy Andersen will work on the curriculum and school requirements of the contract with the school principals.

THE URGENCY FOR CHANGE

(Excerpt from FordNGL.com)

Too many high school students today are disconnected and unsuccessful in schools that lack relevance. A large proportion of students who drop out of high school say that they found school boring and their classes uninteresting. The national high school drop-out rate of 30 percent—and reaching levels of more than 50 percent among minority populations—testifies to the urgent need to engage our country's youth in learning that addresses their interests and develops their talents. Even of those who do graduate from high school, a surprisingly high percentage are required to take remedial academic courses in their first year of college, convincing many young people that college is not for them.

Even for many high- and medium-achieving students, traditional modes of instruction lack the real-world applications and engagement of personal interests that benefit young people. The lack of focus and persistence in higher education among academically qualified students suggests that personal engagement is missing in most high schools.

Ford recognizes the importance of these issues. In today's global economy, a highly skilled workforce is critical to corporate survival. The fiercely competitive global automotive sector has dramatically accelerated the shrinking of the talent pool, particularly in North America-and like many companies, Ford and its suppliers are having increasing difficulty in finding and keeping workers with skills in engineering, science, design, finance, and technology. The educational system is unable to meet the needs of this knowledge- and information-based economy. Ford Motor Company Fund's Ford PAS Next Generation Learning initiatives are designed to mobilize all sectors of a community and to bring communities together, nationwide, to transform high schools and the entire workforce development system. By helping communities address this most perplexing challenge-ensuring the future of American competitiveness and economic health-Ford continues its long tradition of leading and supporting educational improvements that benefit the American economy.

FORD NGL FRAMEWORK IMPLEMENTATION

STRAND ONE: Transforming Teaching and Learning

Creating meaningful learning experiences that enable students to apply academic knowledge to real-world challenges

Ford Academy of Manufacturing Sciences

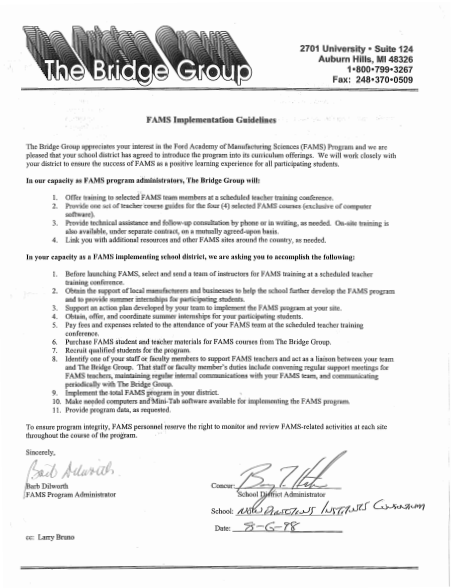
The original charter for the Advanced Technology Academy was based on the State of Michigan Technology Curriculum and the Ford Academey of Manufacturing Sciences (FAMS) program. Administrators of the Academy completed The FAMS In-service & Training on June 22, 1998 at Henry Ford Community College. Larry Bruno was the Director of the FAMS program and approved the Advanced Technology Academy charter request which was subsequently approved by Lake Superior State University in the fall of that year.

HENRY FORD COMMUNITY COLLEGE
Dearborn, Michigan

Certificate of Completion

This Certificate Attests That
Barry Hawthorne
has satisfactorily completed
Ford Academy Of Manufacturing Sciences
Teacher In-Service
1.5 CEUs
as conducted by the
Center for Lifelong Learning

Administration — June 22, 1998 — Date — Faculty



The Bridge Group
2701 University • Suite 124
Auburn Hills, MI 48326
1•800•799•3267
Fax: 248•370•0509

FAMS Implementation Guidelines

The Bridge Group appreciates your interest in the Ford Academy of Manufacturing Sciences (FAMS) Program and we are pleased that your school district has agreed to introduce the program into its curriculum offerings. We will work closely with your district to ensure the success of FAMS as a positive learning experience for all participating students.

In our capacity as FAMS program administrators, The Bridge Group will:

1. Offer training to selected FAMS team members at a scheduled teacher training conference.
2. Provide one set of teacher course guides for the four (4) selected FAMS courses (exclusive of computer software).
3. Provide technical assistance and follow-up consultation by phone or in writing, as needed. On-site training is also available, under separate contract, on a mutually agreed-upon basis.
4. Link you with additional resources and other FAMS sites around the country, as needed.

In your capacity as a FAMS implementing school district, we are asking you to accomplish the following:

1. Before launching FAMS, select and send a team of instructors for FAMS training at a scheduled teacher training conference.
2. Obtain the support of local manufacturers and businesses to help the school further develop the FAMS program and to provide summer internships for participating students.
3. Support an action plan developed by your team to implement the FAMS program at your site.
4. Obtain, offer, and coordinate summer internships for your participating students.
5. Pay fees and expenses related to the attendance of your FAMS team at the scheduled teacher training conference.
6. Purchase FAMS student and teacher materials for FAMS courses from The Bridge Group.
7. Recruit qualified students for the program.
8. Identify one of your staff or faculty members to support FAMS teachers and act as a liaison between your team and The Bridge Group. That staff or faculty member's duties include convening regular support meetings for FAMS teachers, maintaining regular internal communications with your FAMS team, and communicating periodically with The Bridge Group.
9. Implement the total FAMS program in your district.
10. Make needed computers and Mini-Tab software available for implementing the FAMS program.
11. Provide program data, as requested.

To ensure program integrity, FAMS personnel reserve the right to monitor and review FAMS-related activities at each site throughout the course of the program.

Sincerely,

Barb Dilworth
FAMS Program Administrator

Concur: School District Administrator
School:
Date: 5-6-98

cc: Larry Bruno

The Ford Partnership for Advanced Studies Curriculum

ATA centered its curriculum on the Michigan Department of Education requirements and the Ford Partnership for Advanced Studies (Ford PAS), a program based upon project-based learning modules. Ford PAS provides students with high quality interdisciplinary learning experiences that challenge them academically and develop their problem-solving, critical thinking, and communication skills. By building strong local partnerships with business and higher education, Ford PAS encourages and prepares students for success in college and professional careers in fields such as business, engineering, health care and technology.

The high school curriculum is designed to merge the last two years of high school with the first two years of college. At the conclusion of sophomore year, all students are required to choose one of four career pathways:

- **BUSINESS**
- **ENGINEERING**
- **HEALTH CARE**
- **TECHNOLOGY**

FORD PARTNERSHIP FOR ADVANCED STUDIES
High Standards for High Achievement

Certificate of Participation

is hereby granted to
Barry Hawthorn
Attended the
Ford PAS Training Conference
June 22nd - 24th, 2004
Ann Arbor, Michigan
Sponsored by
Ford Motor Company and Education Development Center, Inc.

Cheryl Carrier — *Ford Motor Company*
Ilene Kantrov — *Education Development Center, Inc.*

The Ford PAS Modules

- From Concept to Consumer: *Building a Foundation in Problem-Solving*
- Media and Messages: *Building a Foundation of Communication Skills*
- People at Work: *Building a Foundation of Research Skills*
- Careers, Companies, and Communities
- We All Run on Energy
- Energy from the Sun: Biomass
- Is Hydrogen a Solution?
- The Nuclear Revolution
- Energy for the Future
- Closing the Environmental Loop
- Planning for Efficiency
- Planning for Business Success
- Ensuring Quality
- From Data to Knowledge
- Reverse Engineering
- Different by Design
- The Wealth of Nations
- Markets Without Borders
- Global Citizens
- Calculating Your Future; Personal Finance

The Ford PAS modules, which are all project based learning modules, continue to be used in the Employability Skills class for all 9th grade students. The Sustainability modules covering alternative sources of Energy are used in our Engineering Pathway.

Coordinated Learning Experiences through Community Partnerships

During the 2014/2015 school year the Academy entered into the most extensive Community Based Partnership with the Ford Motor Company High School Partnership Program. This program allows the Academy the opportunity to create Coordinated Learning Experiences (CLEs) that extend beyond the classroom. Multiple interactive programs were conducted with the advise and assistance of Ford Motor Company staff. Events included: Crash Test Demonstration, Mock Interviews, Ford Rouge Tour, Fireside Chat with the VP of Global Quality In the Executive Board Room at WHQ, Business Plan Panel Review, Six Sigma Demonstration, Diversity Event, Career Day, and Credit Education.

BUSINESS ACADEMY CLEs

ATA Seniors Visit Ford Motor Company World Headquarters

The Academy received a special invitation to engage ATA students in a round table discussion with Bennie Fowler, Group Vice President Quality and New Model Launch, Ford Motor Company. A group of 12 ATA seniors attended the round table luncheon discussion at Ford World Headquarters in the 11th floor board room. Mr. Fowler provided a high level overview of the Ford Motor Company and his personal journey to Group VP of Quality at Ford Motor Company. The one-on-one hour long discussion included both personal and professional questions and answers. Following the luncheon meeting the students toured the 12th and 1st floor of World Headquarters. Mr. Fowler sponsors the Ford Motor Company High School Partnership Program which has been very active with ATA during the 2014 / 2015 school year.

Ford Credit Money Smart Program

Personal Finance and Economic students participated in Ford Credit and Federal Reserve Bank of Chicago's annual Money Smart program. This week long series of classes is designed to increase student's awareness of financial literacy. During the event Ford Credit employees taught students the 10 Ways to Achieve Financial Success which focused upon obtaining credit, protecting credit, saving, investing and many other financial topics.

Ford Volunteer Corps Provided Mock Interviews

Volunteers from Ford Motor Company Volunteer Corps spent several days teaching business students how to interview and conduct job searches. The lessons were conducted through a series of classes which consisted of lectures and simulated interviews. The simulated interviews involved a fictitious company being established that served as the foundation upon which students learned how to research a company, answer interview questions, dress professionally and write a resume.

Upon the completion of the classes students engaged in a simulation in which they competed for a job through mock interviews. Seven students (Deja'nek Richardson-Brown, Devin Harvey, Cheyenne Elswick-Garcia, Lovell Williams III, Danisha Mathis, DeMonte Palmer, Jaylin Tramel) made it to the second interview stage in which they were monitored to determine the strength of their leadership skills, problem solving ability, and how well they worked in a team environment. At its conclusion Ford Volunteers recognized DeMonte Palmer and Deja'nek Richardson as the Grand Champions.

ATA Business Professionals of America Student Officers Attend Leadership Conference

Student Officers of the Academy's Business Professionals of America (BPA), Matthew Young and Brandon Jackson, attended the BPA Fall Leadership Conference in Lansing on October 13, 2014. Ms. LaDonna Rose, the ATA faculty advisor for BPA, stated, "this conference provides our students learning opportunities that you can't experience in the classroom. According to Young, "the skills we learned will prove invaluable in improving not only our leadership in school but in our everyday lives as well." The Officers participated in various team building activities, including building a free standing tower as a team without talking, and creating a product to market in 10 minutes. Young said, "meeting new people and coming out of our comfort zone was an excellent way to expand our horizons and learn how to interact with a variety of people." The officers report that they will be sharing their experiences with classmates, which will provide a distinct advantage to the entire ATA chapter.

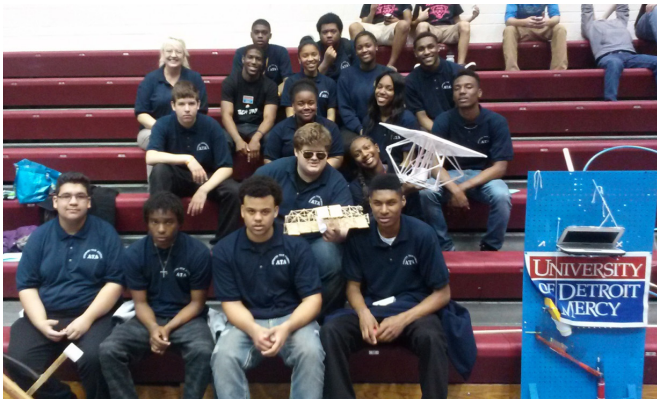
A primary function of ATA's BPA is to run the school store. In addition to this it coordinates an annual blood drive through Red Cross. This year the club exceeded its goal of collecting 22 pints and collected 31 pints. Students that participate in the club also compete in a regional competition that was held at Henry Ford College. This year four students advanced to the State level

STEAM ACADEMY CLEs

Annual Technology Discovery Day at the University of Detroit Mercy

Junior and Senior engineering and science students participate in the Annual Technology Discovery Day event-STEM Spring Fling at the University of Detroit Mercy. Over 15 students competed to defend our titles from previous years in the dual egg drop, King of the Hill self-propelled car competition, and Rube Goldbergh machine. Four catapult teams also competed. Upon the completion of these activities students toured the campus; participated in a drunk driving simulator; saw an "awesome" chemistry show and several robotics and technology related exhibits.

This event is extraordinary in that it engages students mathematics and physics knowledge by having them apply various principles such as momentum, projectile motion, and force and load in a fun and engaging way. Students also demonstrated 21st century career skills such as teamwork, and being a fair and ethical participant.



Ford Rouge Factory Tour

Project Lead the Way engineering students toured the Rouge Factory where they learned about its history and experienced being in an assembly plant. The event began with two movies that informed the students about the triumphs and tribulations of the Rouge. Then they toured the Ford F-150 plant where they saw the first military grade aluminum alloy F-150 trucks being assembled. During the tour students also learned about the plant's living roof's energy efficient benefits and ecosystem.

ATA Coregrears - FIRST Robotics Club

On May 8, 2015 the Robotics Club demonstrated this years competition robot to the Engineering Design classes with the goal to recruit students for next year.

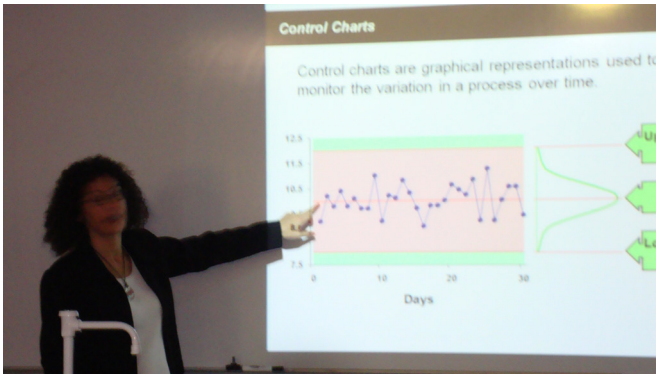
This year's tournament Recycle Rush; was geared towards building a robot that could handle storage totes and recycling containers. ATA's team built their 72" tall robot at the Michigan Engineering Zone (MEZ), sponsored by the University of Michigan. The team which consisted of sophomore, junior and senior students all functioned well together. They also enjoyed the assistance they received both from grantees and their engineering mentors.

Manufacturing Day 2020

Manufacturing Day 2020 was held virtually this year with participating partners such as Shinola, Detroit Bikes, E&E Manufacturing and Burke Architectural Millworks. Students spent the day touring local companies. Many of the presenting companies provided students with career guidance on how to be competitive in the workplace and how to obtain a strong competitive edge in order to become employable at their companies.

Ford Motor Company Representative Gives Demonstration of the Six Sigma Program

A speaker from Ford Motor Company presented to the PLTW (Project Lead The Way) class a demonstration of the Six Sigma Program used in the manufacturing industries to measure and assure quality control. Students started the year with a bridge building activity using the 6-Step Engineering Design Process. They spent two class periods writing a design brief, brainstorming, sketching, and prototyping a bridge made only of paper that spanned the greatest distance between two wooden blocks.



MICHauto Takes Engineering Students on a Tour of Visteon's Great Lakes Corporate Center

MICHauto, a key economic development initiative of the Detroit Regional Chamber, dedicated to promoting, retaining and growing the automotive industry in Michigan collaborated with Advanced Technology Academy by establishing a tour for Project Lead the Way engineering students of Visteon's Great Lakes Corporate Center. During this event students witnessed engineers at work and took a tour of its testing labs.

HEALTH CARE MANAGEMENT ACADEMY CLEs

HFC – Non-Traditional Health Careers for Men

Male senior healthcare students attended the Non-Traditional Health Careers for Men day. Some of the careers that were discussed during this even included Medical Assistant, Physical Therapy Assistant, Respiratory Assistant, Radiography, Nursing, Surgical Technology, Ophthalmic and Pharmacy Technology.

Detroit Economic Club Luncheon

Children's Hospital of Michigan Foundation sponsored Advanced Technology Academy's healthcare students at the America's Bitter Pill Detroit Economic Club event. Steven Brill, author of America's Bitter Pill addressed the Affordable Care Act during his speech where he informed the public about how it was written, implemented, and is addressing /failing to address the rampant abuses of the healthcare industry. The current state of Michigan's healthcare system was addressed by Nancy Schlichting, CEO of Henry Ford Health Systems, and Michael Freed, President and Chief Executive Officer of Priority Health.

University of Michigan Nanofabrication Facility Tour

Mr. Nelson's Anatomy and Physiology class visited University of Michigan's Nanofabrication Facility and were able to perform several experiments and work closely with the U of M faculty in the labs.

Eastern Michigan University Tour

Several Students toured Eastern Michigan University and attended a presentation with the Department Head of Health Administration.

Henry Ford Health Systems - Health Care Summit

Students attended a Health Care Summit at the Shriner's Convention Center. The summit is put on by Henry Ford Health Systems for schools that have a Henry Ford Health System Program.

CAREER DEVELOPMENT CLEs

Henry Ford College STAR Speaker Visit

Henry Ford College offered the STAR Speaker Visits to our high school classes. HFC faculty members come in to talk to students about career and what is required academically. Speakers this year that came to ATA were in the areas of: Business, Computer Information Systems, Criminal Justice, Engineering, Environmental Studies and Telecommunications.

LAKE SUPERIOR STATE UNIVERSITY SUMMER CAMPS

High School Camps

Annually ATA students attend robotics or health care summer camp at Lake Superior State University in Sault Ste Marie. Students spend the week living in college dorms, eating their meals in the University's cafeteria and attending interactive classes taught by Lake Superior State University faculty members. Students also engage in several nighttime events which included: swimming, rock climbing, barbecues and other activities requested by the students.

Students participating in the LSSU Robotics Camp gained experience in robotic programming, CAD, electronics, gaming and more. Health Care Camp students spent the week job shadowing hospital personnel in different areas of health care. Upon its conclusion students engaged in an emergency simulation put on by the Sault Ste. Marie Fire Department and upon successful completion achieve CPR certificates.

Middle School STEAM Camp

Six middle school students were awarded scholarships to attend a science, technology, engineering, art and mathematics (STEAM) camp at Lake Superior State University (LSSU) from June 27-30. Students worked with personnel from the university to bring STEAM learning to life and participated in experiential learning activities such as rock climbing. While attending the camp students lived in college dorms which were set aside for the exclusive use of attendants.

HENRY FORD COLLEGE DNA CAMP

Upon receipt of a scholarship four female middle school students attended a DNA Camp at Henry Ford College. Biology Professor, Dr. Cheryl Garrett, led the camp and engaged students in conducting lab experiments and mini-lectures on cell and DNA structure/function. Guest speakers from various STEM fields enhanced the program by providing a firsthand account of science related careers.

STRAND TWO: Redesigning Schools

Creating and maintaining the career- and interest-based programs and the collaborative culture, structures, and practices necessary to transform teaching and learning and facilitate community engagement.

TRANSFORMING THE SCHOOL EXPERIENCE: COLLEGE & CAREER READINESS

Preparing Advanced Technology Academy students to be ready with post-secondary workforce readiness skills continues to be its primary focus. The goal of the Academy is to connect education and employment pathways so that students will be able to have a fulfilling college experience and a financially-secure and successful career. Since 2000, it has strived to provide opportunities that enrich students' career readiness skills so that they are able to adopt to an ever-changing global economy requiring adaptability and a commitment to life-long learning through its implementation of Ford Next Generation Learning Ford Partnership for Advanced Studies, Ford High School Partnerships, and WorkKeys curriculum provided by KeyTrain. Over the years it has also provided experiential learning activities through its partnership with Detroit Economic Club and other leading business industries.

School to Work and College Readiness

On Wednesday, January 11, 2017, State of Michigan House and Senate members set the legislative agenda for the next two years. A key focal point of the discussion were proposals to enhance Michigan's skilled trades training programs. Advanced Technology Academy is proud of its accomplishments in leading this charge with its diverse curriculum in providing students with advanced options to learn skilled trades through the mechatronics lab or attend college while in high school. Currently, plans are being devised to establish a pre-health care certification program and skilled trades programs which will be developed in accordance with local skilled trade unions. The other two items on the agenda were to revive economic proposals to make child care and college more affordable to the community. For over 18 years the Academy has provided free college education to its high school students which was enhanced over the past two years with the creation of an Early Middle College and upon moving to its new location opened a pre kindergarten program thus enabling students to complete a Pre-K – 13th grade education.

Career and College Readiness

Founded upon the premise of providing an education built off a foundation of core content and career standards students are prepared for the competitive global workforce by learning how to be innovative collaborators with creative and critical thinking skills. Along with the incorporation of WorkKeys, Missouri Curriculum, and Ford NGL the Academy has infused Partnership for 21st Century Skills into its curriculum. In order to concentrate efforts on the combination of these efforts the Strategic Business Unit in partnership with the School Improvement Team wil collaborate to ensure that career relevant experiences and lessons are taught at all grade levels.

ATA PARTNERS WITH HENRY FORD COLLEGE'S EARLY/MIDDLE COLLEGE PROGRAM

Henry Ford College (HFC) has partnered with Advanced Technology Academy last school year to offer an Early / Middle College Program that will start in the fall of 2015. This partnership is very exciting for the Academy because it provides its students with the opportunity to earn a free associate degree or certificate from HFC.

Henry Ford College is a public two-year college located in Dearborn, Michigan in Metro Detroit. The school was established in 1938 and is accredited by North Central Association of Colleges and Schools and the Michigan Commission on College Accreditation.

Students who meet a specific set of criteria, including minimum GPA, faculty recommendations, student interests, counselor recommendations and a personal interview are invited to the Early/Middle College Program. Students in this program have a specified sequence of classes to complete which will lead to an Associate's degree from Henry Ford College in pre-engineering, business, pre-nursing or EMT. On the next page is an example of the course sequence the students will follow to complete the program. Students will also be required to take a 13th year in order to finish the program.

The first cohort of 25, ATA high school students started the Henry Ford College Early/Middle College Program this fall. All students are taking COLL 101, College Success, which presents techniques to help students achieve academic success, including how to navigate the college environment and embrace diversity. This course covers note taking, time management, and career decision-making.

The first course is instructed on the ATA campus with a Henry Ford College Professor. Future classes for the students in the program will either scheduled at the HFC Campus or the ATA Campus.

TYPICAL EARLY / MIDDLE COLLEGE PROGRAM COURSE SEQUENCE

Below is a glimpse of the typical course sequences for the career pathways available. Revised - April 14, 2023

BUSINESS ADMINISTRATION - ASSOCIATE DEGREE

Total College Credits Possible = 60

GRADE 9		GRADE 10		GRADE 11		GRADE 12		GRADE 13	
1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester
ELA 9	ELA 9	ELA 10	ELA 10	ELA 11	ELA 11	ENG 131 - 3 CR Intro to College Writing	ENG 132 - 3 CR College Writing & Research	BEC 152 - 3 CR Principles of Microeconomics	BLW 253 - 4 CR Business Law & the Legal Environment
Algebra I	Algebra I	Geometry	Geometry	Algebra II	Algebra II	BAC 132 - 4 CR Intro to Managerial Accounting	Elective - 3 CR	Elective - 3 CR	Electives - 10 CR
US History	US History	World Civ	World Civ	Economics	Government	SPC 131 - 3 CR Fundamentals of Speaking	Elective - 3 CR	Elective - 3 CR	
Biology	Biology	Chemistry	Chemistry	Business 2A	Business 2B	Health or PE	Health or PE	HS Math	HS Math
Spanish I	Spanish I	Spanish II	Spanish II	BBA 131 - 4 CR Intro to Business	BEC 151 - 3 CR Principles of Macroeconomics	Seminar	Seminar	Seminar	Seminar
		Business 1A	Business 1B	MATH 131 - 4 CR Mathematics for the Modern World	BAC 131 - 4 CR Intro to Financial Accounting				
		COLL 101 College Success	CIS 100 - 3 CR Intro to Info Technology	Seminar	Seminar				

REGISTERED NURSE - ASSOCIATE DEGREE

Total College Credits Possible = 65

GRADE 9		GRADE 10		GRADE 11		GRADE 12		GRADE 13	
1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester *	2nd Semester *	1st Semester *	2nd Semester *
ELA 9	ELA 9	ELA 10	ELA 10	ELA 11	ELA 11	NSG 101 - 2 CR Beginning Health & Physical Assessment	NSG 118 - 1 CR Pharmacology for Nursing Practice II	NSG 201 - 1 CR Pharmacology for Nursing Practice III	NSG 206 - 1 CR Pharmacology for Nursing Practice IV
Algebra I	Algebra I	Geometry	Geometry	Algebra II	Algebra II	NSG 115 - 2 CR Pharmacology for Nursing Practice 1	NSG 119 - 6 CR Medical-Surgical Nursing II	NSG 202 - 6 CR Medical-Surgical Nursing III	NSG 208 - 4 CR Women's Health and Maternity Care
World Civ	World Civ	US History	US History	Chemistry	Chemistry	NSG 117 - 6 CR Medical-Surgical Nursing 1	NSG 121 - 4 CR Psychiatric Mental Health Nursing	NSG 207 - 4 CR Pediatric Nursing	NSG 209 - 6 CR Medical-Surgical Nursing IV
Biology	Biology	Anatomy & Physiology	Anatomy & Physiology	Economics	BIO 234 - 4 CR Anatomy & Physiology II	Health or PE	Health or PE	Seminar	NSG 212 - 1 CR Professional Transitions
Spanish I	Spanish I	COLL 101 College Success	HCS 131 - 3 CR Computers in Health Care	BIO 233 - 4 CR Anatomy and Physiology I	Math 115 - 4 CR Intermediate Algebra - or -	Seminar	Seminar		Seminar
		PSY 131 - 3 CR Intro Psychology		ENG 131 - 3 CR Intro to College Writing	MATH 131 - 4 CR Mathematics for the Modern World - or -				
				Seminar	MATH 141 - 4 CR Intro to Statistics				
					Seminar				

* *Student must have a 3.0 GPA in order to apply to the School of Nursing. Student must pass the Health Education Systems Inc. (HESI) exam.*

College Courses

Courses subject to change at ATA or HFC discretion at any time.

ENGINEERING TECHNOLOGY - MECHANICAL - ASSOCIATE DEGREE

Total College Credits = 62-63

GRADE 9		GRADE 10		GRADE 11		GRADE 12		GRADE 13	
1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester
ELA 9	ELA 9	ELA 10	ELA 10	ELA 11	ELA 11	ENG 131 - 3 CR Intro to College Writing	MTT 140 - 3 CR Introduction to CNC	ENGT 245 - 3 CR Applied Statics	ENGR 125 - 3 CR Intro to Computation for Engineers
Algebra I	Algebra I	Geometry	Geometry	Algebra II	Algebra II	MATH 110 - 4 CR Trigonometry - or - MATH 115 - 5 CR College Algebra	CHEM 131 - 4 CR Principles of Chemistry	ENGT 265 - 3 CR Mechanical Senior Project	ENG 132 - 3 CR College Writing & Research - or - ENG 135 - 3 CR Business & Technical Writing & Research
US History	US History	World Civ	World Civ	Economics	Government		ELECTIVE - 3 CR Choose from AUTO, DRAF, or MTT	ENGR 121 - 3 CR Intro to Engineering	
Biology	Biology	Chemistry	Chemistry	Physics	Physics	MTT 100 - 3 CR Machine Tool Processes I	ELEC 245 - 3 CR Programmable Controllers	BEC 151 - 3 CR Principles of Macroeconomics - or - BEC 152 - 3 CR Principles of Microeconomics	ELECTIVE 4-5 CR
Spanish I	Spanish I	Spanish II	Spanish II	MATH 100 - 3 CR Basic Technical Math	ENGR 130 - 3 CR Intro to Engineering	ELEC 200 - 4 CR Ladder Diagrams & Motor Controls	Health or PE		ENGR 201 - 3 CR Science of Materials
		COLL 101 College Success	ELEC 103 - 4 CR Basic Electricity	Seminar	Seminar	Seminar	Seminar	Financial Mgmt I	Financial Mgmt II
						Health or PE		Seminar	Seminar

LIBERAL ARTS - ASSOCIATE DEGREE *(See EMC Counselor)*

Total College Credits = 60

TYPICAL CERTIFICATE PROGRAM COURSE SEQUENCE

Below is a glimpse of the typical course sequences for the career pathways available. Revised - April 14, 2023

CYBER SECURITY CERTIFICATE PLUS - CERTIFICATE PROGRAM

Total College Credits = 29

GRADE 9		GRADE 10		GRADE 11		GRADE 12		GRADE 13	
1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester
ELA 9	ELA 9	ELA 10	ELA 10	ELA 11	ELA 11	ELA 12	ELA 12	EMC Seminar	EMC Seminar
Algebra I	Algebra I	Geometry	Geometry	Algebra II	Algebra II	Science Related	Science Related	CNT 260 - 4 CR Network Security	CIS 280 - 4 CR Info Assurance & Security
US History	US History	World Civ	World Civ	Economics	Government	CIS 129 - 4 CR Intro to Unix	CNT 120 - 4 CR Networking II	CIS 111 - 3 CR Database Development	CIS 175 - 3 CR Digital Forensics I
Biology	Biology	Chemistry	Chemistry	HS Computers	HS Computers	Health or PE	Health or PE	HS Math Math	HS Math Math
Spanish I	Spanish I	Spanish II	Spanish II	Cyber Security 2A	CNT 110 - 3 CR Networking I	Seminar	Seminar	Seminar	Seminar
		Cyber Security 1A	Cyber Security 1B	CIS 125 - 4 CR Principles of Programming Logic	Seminar				
				Seminar					

MEDICAL ASSISTANT - CERTIFICATE PROGRAM

Total College Credits Possible = 35

GRADE 11		GRADE 12		GRADE 13	
1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester
ELA 11	ELA 11	ELA 12	ELA 12	Personal Finance	Personal Finance
Algebra II	Algebra II	Math	Math	MOA 190 - 4 CR Medical Office Internship	MOA 190 - 4 CR Medical Office Internship
Economics	Government	Art	Art		
AH 100 - 4 CR Medical Terminology	MOA 101 - 4 CR Administrative Medical Procedures I	Health or PE	Health or PE		
Math 101 - 3 CR Mathematics for Health Careers	BIO 134- 5 CR Essentials of Anatomy & Physiology	MOA 110 - 2 CR Processing Health Insurance Claims	MAO 170 - 3 CR Medical Correspondence		
		MOA 122 - 2 CR Introduction to Medical Assistant Clinical Procedures	MOA 152 - 5 CR Medical Assistant Clinical Procedures II		
			PSY 131 - 3 CR Intro Psychology		

PHARMACY TECHNICIAN - CERTIFICATE PROGRAM

Total College Credits Possible = 39

GRADE 11		GRADE 12		GRADE 13	
1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester
ELA 11	ELA 11	ELA 12	ELA 12	Personal Finance	Personal Finance
Algebra II	Algebra II	Math	Math	PHT 193 - 4 CR Pharmacy Externship	PHT 193 - 4 CR Pharmacy Externship
Economics	Government	Art	Art		
AH 100 - 4 CR Medical Terminology	BBA 110 - 3 CR Business Grammar & Punctuation	Health or PE	Health or PE		
Math 101 - 3 CR Math for Health Careers	HSC 131- 3 CR Computers in Health Care	PHT 100 - 2 CR Intro to Pharmacy Technology	PHT 119 - 2 CR Out-Patrient Pharmacy Externship		
		PHT 124 - 3 CR Pharmacology I for Pharmacy Technicians	PHT 125 - 3 CR Pharmacology II for Pharmacy Technicians		
		PHT 132 - 2 CR Basic Pharmacy Software Applications	PHT 165 - 2 CR Issues in Pharmacy		
		PHT 150 - 3 CR Pharmaceutical Calculations	PHT 175 - 4 CR Applied Pharmacy Systems		
			PHT 178 - 2 CR Applied Out-Patient Pharmacy Systems		

MECHATRONICS - 2 YEAR PROGRAM - COLLEGE CREDIT

Total College Credits = 32

YEAR 1		YEAR 2	
1st Semester	2nd Semester	1st Semester	2nd Semester
TAFD 120 - 2 CR Industrial Safety Awareness	TADV 100 - 2 CR Basic Print Reading	TAFP 150 - 4 CR Intro to Industrial Hydraulics	CIMTA 112 - 1 CR System Technology
TAEL 103 - 3 CR DC & AC Electricity	MTT 100 - 4 CR Machine Tool Processes I	TADV 125 - 1 CR Intro to Integrated Manufacturing	TAMT 110 - 2 CR Mechanical Power Transmission
	TAEL 106 - 3 CR Electronics Theory	TAFP 160 - 4 CR Pneumatic Power & Control	MTT 140 - 3 CR Introduction to CNC
			TAEL 245 - 3 CR* Programmable Logic Controller (PLC)

HIGH SCHOOL STUDENTS MUST TAKE HENRY FORD COLLEGE INSTRUCTOR'S FINAL EXAMINATION FOR ALL COURSES

Some courses held at ATA and some at HFC.

Not all classes will be offered in ATA's Program

College Courses

Courses subject to change at ATA or HFC discretion at any time.

It is the policy of Advanced Technology Academy that no person shall, on the basis of race, color, religion, national origin or ancestry, sec, age, disability, height, weight or marital status be excluded from participation in, be denied the benefits of, or be subjected to discrimination with the respect to any educational program, activity or employment.

Revised - April 14, 2023

EARLY/MIDDLE COLLEGE PROGRAM

ATA also offers its own Early/Middle college program consisting of 2 parts. The first part is the Concurrent College Enrollment High School. Under this initiative, eligible students may take ten postsecondary classes during grade 9 through 12. Students can enroll in two concurrent college enrollment classes in the first, second, and third academic year. They may also enroll in up to four concurrent college enrollment classes in the student's fourth academic year in a traditional sequence.

The second part Is the Early/Middle College program. This program includes a fifth year sponsored by our participating universities. Current partners include Davenport University, Lake Superior State University and Eastern Michigan University.

To be eligible for the fifth year of FREE college credit a student must agree to defer their high school diploma until completion of the fifth year. This fifth year allows students to pursue an associates degree, technical certification or additional transferable college credits that are allowed by the State of Michigan Post Secondary Enrollment Options Act.

CONCURRENT COLLEGE ENROLLMENT

ATA students continue to be offered transferable college credit through Davenport University, Eastern Michigan University and Lake Superior State University. Upon successfully completing the program students can graduate with up to 32 credit hours or more determined by the career pathway they selected. Classes from these universities are more rigorous and meet the standards of National Alliance of Concurrent Enrollment Partnerships and the Higher Learning Commission. In many cases, faculty from the colleges/universities come to the campus to administer final exams to our students. Due to the high level of rigor that is needed for high school students to successfully complete college course students who have a 2.4 GPA and meet other required criteria for the program earned their seat within the Concurrent Enrollment Program.

EMU Pilots Concurrent Enrollment Training with ATA Faculty

Eastern Michigan University established a Concurrent Enrollment Training Program for all Eastern Michigan Adjunct Teachers at Advanced Technology Academy. The primary purpose of this training is to teach instructors how to align high school and post-secondary curriculum and emphasize leading pedagogy strategies. This ongoing course is a first of its kind and serves as a pilot program for EMU to offer a certification in higher learning.

NATIONAL ALLIANCE OF CONCURRENT ENROLLMENT PARTNERSHIPS (NACEP)

National Alliance of Concurrent Enrollment Partnerships (NACEP) has begun a branch in Michigan called MiCEP. Advanced Technology Academy is actively participating in the formation of this new organization. Cynthia Andersen and Hannah Hawthorne assisted in the creation of the bylaws; ensuring that equal participation of secondary and post-secondary partners are represented on its board of directors.

A joint conference between MiCEP and Early Middle College Consortium took place on August 14, 2014. Adam Lowe, Executive Director, National Alliance of Concurrent Enrollment Partnerships (NACEP) presented at this conference.

MiCEP Delegation at Annual NACEP Conference in Louisville, KY.

2016 NACEP National Conference

Advanced Technology Academy was highlighted prominently as a platinum sponsor of National Association of Concurrent Enrollment Partnerships (NACEP) conference. This is the fourth consecutive year that academy administrators of the Early Middle College and Concurrent Enrollment programs have attended. The goal to become a Michigan Early Middle College Association (MEMCA) accredited school with Henry Ford College has been a key focal point of the 2016–17 school year.

2015 NACEP National Conference

NACEP's 2015 National Conference, "Reaching New Heights", took place October 25-27, 2015 in Denver, Colorado. Advanced Technology Academy was once again a premium sponsor and was prominently displayed throughout the conference. The Academy had a booth set up where the attendees could get information about the Concurrent College Enrollment and Early/Middle College program offered to ATA students.

2014 NACEP National Conference

NACEP's 2014 National Conference, "Elevating College Transition", took place October 26-28, 2014 in Chicago, Illinois. Advanced Technology Academy was a premium sponsor and was prominently displayed throughout the conference. The Academy had a booth set up where the 850 attendees could get information about the Concurrent College Enrollment and Early/Middle College program offered to ATA students. Administration attended the Key Note Session in the Crystal Palace and was included in a board meeting to discuss the 2015 National Conference to be held in Denver, Colorado. During the event ATA administrators that attended had dinner with NACEP's Board of Directors as a thank you to our dedication as a Premium Sponsor.

SCHOOL TO WORK - A NEW PATHWAY TO ACADEMIC AND CAREER SUCCESS

Wednesday, August 26, 2016 marked the celebration of Advanced Technology Academy's newly built Mechatronics program in honor of one of its founding board members, Richard Schneider Ph.D., School Board President. Mechatronics is a field that combines mechanical engineering, electronics, computer technology and information technology. Through completing the program students will be able to accelerate their post-secondary education into a career by graduating with the foundational skills to support mechanical engineers, modify machines, and provide maintenance for related equipment in advanced manufacturing companies.

Mr. Quizenberry, President of Michigan Association of Public School Academies; Dr. Stan Jensen, Henry Ford College President; and Mr. Esper, ATA School Board Treasurer; presided over the ceremony. ATA was honored to have them as key note speakers of the event. Each spoke of the Academy's great history and the legacy that Dr. Schneider leaves behind.

Through the completion of the Mechatronics program, participating students will gain an introductory foundation to training in hydraulics, pneumatics, motor control, AC/DC electrical systems, welding, mechanical drives and more. While a few middle school students have enrolled into the program the high school students that successfully finish the program will earn a certificate of completion, gain exposure to cutting-edge field experiences, and network with industry leaders. The end goal is that students will register into Henry Ford College's MAT2 program resulting in a job with a major manufacturing plant in

FORD NGL CAREER & ACADEMIC COUNSELING PROGRAMS

The Counseling Department fully implemented the Ford NGL Career, Academic, and Developmental Counseling program In conjunction with Eastern Michigan University. This program is comprised of three specific areas in student achievement; academic development, career development, and personal & social development.

Academic Development consists of:

- Applying skills needed for educational achievement
- Applying the skills of transitioning between educational levels
- Developing and monitoring personal educational plans

Career Development consists of:

- Applying career exploration and planning skills in the achievement of life career goals
- Knowing where and how to obtain information about the world of work and post-secondary training / education
- Applying employment readiness skills and the skills for on-the-job success

Personal & Social Development consists of:

- Understanding self as an individual and as a member of diverse local and global communities
- Interacting with others in ways that respect individual and group differences
- Applying personal safety skills

The goal of this approach will help the student better understand the importance of their education and the advantages they can gain as a result of it. Counselors will help students build or improve skills they will need to achieve their academic and career goals and motivate students involvement in their education.

Workforce Development Center

The main goal of the career center is to provide students with guidance in planning for their careers by providing them with a comprehensive career and educational plan upon graduation. It also serves as an area where students (1st – 12th grade) are taught 21st century career skills. Career counselors work with each student in the grade school, middle school and high school on college and career planning. Students will develop a comprehensive career and educational plan that guides them throughout their ATA education. A plan to provided some of these same services to ATA parents is being developed.

Services Provided

- Career Planning
- Educational Planning
- Assessment testing
- College Visits & Tours
- College Information Nights
- College Admission Process Assistance
- Scholarship & Financial Aid Information
- Resumé Writing Workshops
- Interviewing Techniques
- Personal & Social Development Courses

In the lower grades, counselors present a career planning curriculum. A designated Personal and Social Development Specialist teaches a curriculum on Personal and Social Development in the elementary, middle and high school. The Workforce Development Center assures that all ATA students will be career and college ready when they graduate from high school.

TECHNOLOGY PROGRAMS THAT INSTRUCT CAREER READINESS

Advanced Technology Academy students are provided lessons on career skill development in a variety of modalities. Ford NGL and Detroit DEC teach students how to become career ready with hands on and experiential learning activities while Missouri State Career Readiness curriculum provides personal development lessons. ACT WorkKeys KeyTrain and Career Cruising enhance pedagogy through technology based programs.

ACT WorkKeys, KeyTrain Curriculum

Key Train is a work skills assessment program that helps employers select, hire, train, develop, and retain a high-performance workforce. It does this through the occupational profiles that are linked to job profiles identified in the O'NET database. Many companies utilize it to ensure that potential employees have the skills necessary to do the job through the programs assessments. If a candidate does not have the required skill level to be proficient they are able obtain the required skills through its embedded training program.

Career Readiness Certificate

Career Readiness Certificate is a WorkKeys endorsement that signifies that candidates have the reading, locating information and math skills deemed necessary to do most jobs. Several years ago Michigan Department of Education (MDE) adopted this assessment as part of its standardized test given to all eleventh grader students. The CRC assists students in ensuring that they are competitive. The certification can be applied for by students through MDE.

Since 1999, it has been Advanced Technology Academy's goal to graduate students with the skills required to be competitive in the workforce upon graduation and has utilized WorkKeys to make this goal a reality. This year its curriculum will once again be embedded in the kindergarten through twelfth grade curriculum.

Career Cruising

Career Cruising is another computer based workforce development program that assists students in acquiring 21st century skills. Throughout students educational experience they are able to utilize the program to demonstrate their acquired skills. This workforce readiness program provides career relevant material to students through its multimedia presentations, web-based lessons and portfolio component. The program also offers students with information pertaining to financial aid options, employment requirements, scholarships and college entrance requirements. Through its utilization students create virtual portfolio as they progress through school. High school students are required to complete a minimum of 10 activities, including career interest inventories, school searches, learning style and work skill inventories and identifying their top 2 career pathways.

INDUSTRY CERTIFICATIONS

OSHA-30 Certification

Studnt in the Mechatronic program are encouraged to take the OSHA-30 Certification. The 30-hour training program is intended to provide workers a greater depth and variety of training. All outreach training is intended to cover an overview of the hazards a worker may encounter on a job site. Training emphasizes hazard identification, avoidance, control and prevention, not OSHA standards. class while they are distance learning. Eight of the twelve students have received their OSHA10 certification.

One student who completed the two-year Mechatronics Program has received an internship from Ford Motor Company. While Ford Motor Company could not have her physically at their company, they awarded her $1,000 scholarship. she participated in the 6-month Saturday STEM program offered to our students from the Ford Research laboratories.

Cyber Security/Computer Science Certification

Thanks to our partnerships with Code.org, Khan Academy, and TestOut, students are able to learning about programming and cyber security. Several students have earned industry certifications through these partners.

Edhesive, is a new and more advanced programming language that will be taught next year. Thanks to a grant from Amazon Future Engineers, ATA will now offer another advanced programming language and learning opportunity for students.

In addition, ATA's partnership with Davenport University is growing. A newly instituted Computer Science Concurrent Enrollment Program whereby students gain college credit while being taught on ATA's campus through a blended approach to instruction by Dr. Eric Richardson and overseen by a DU faculty member. In addition, students will have the opportunity to earn a Cybersecurity Certificate through Henry Ford College in the EMC program.

SUMMER LEARNING OPPORTUNITIES

The Summer Skill Building Program is available to students in grades K-8 to help fill in academic gaps students have in Math, English Language Arts, and science. During the summer of 2020, over 200 students signed up to participate in this program.

The High School (HS) Credit Recovery Program utilizes Edgenuity as its on-line platform for instruction and assessments. In previous years, the program staffing included two teachers with ELA and Spanish certifications. This year the program added two additional instructors who are qualified in math and science. Through this addition, the HS establishes real-time access to content related questions.

All summer school faculty are required to complete Google Educator training to ensure effective instruction and authenticate assessments via GoogleClassroom.

GROW DETROIT'S YOUNG TALENT (GDTY) SUMMER INTERNSHIPS

Grow Detroit's Young Talent (GDTY) contributes annual financial assistance to ensure that Detroit residents in high school are able to gain real life work experiences through summer internship experiences.

Previous Intern Partner Sites

- The Dearborn Historical Society
- Torsion Control Products Inc.
- Henry Ford Health System
- Times Herald Newspaper
- Great Lakes Mechanical
- Dearborn Animal Shelter
- Henry Ford College
- Roush Industries
- AAA of Michigan
- Fairlane Ford
- Team Detroit
- DTE Energy

Select ATA High School students who are entering their senior year participate in the internship program. The Academy has provided over 150 students with paid summer internship experiences. This program is 100% funded through grants, contributions and donations. ATA student interns have benefited from over $65,000 in grant funding for the program. In order to expand the program to include more student interns in future years the employer / work-study sites have agreed to participate in the funding on a cost share model.

During the summer of 2020, ATA received approval to allow 50 interns to perform a virtual intern experience. Students explored career in a virtual mode and earned $1,000 when they complete the three required segments. Students who completed the entire 5 week program were given a chrome book and 3 month prepaid hot spot. The students will keep the chrome book as a gift for participating in the 2020 virtual summer internship.

Laurie Washington, DTE spokesperson and Program Manager Career Awareness/ Workforce Development, worked with ATA's At-Risk Career Coach and CTE Director to choose candidates for the 2020 Internship Program. Eligible students were required to complete DTE's required application and employee/internship screening process. DTE committed to place students in COVID safe environments.

Michigan Rehab Services enhanced ATA's potential to create internships for 8-10 students with disabilities. Qualified students completed a 15 week pre-employment training program after school.

MICHIGAN TRANSFER AGREEMENT

Advanced Technology Academy announces a new college and career readiness program. it features embedding the MTA General Educatoon studies in the ATA Core Curriculum and the new Learn4ward program which enables students to transfer seemlessly from HFC to UofM Dearborn, Wayne Stte University or Davenport University.

The Michigan Transger Agreement (MTA) is desigened to help students transfer from one of Michigans communitiy colleges to a 4 year college or university in the state. ATA is a State of Michian approved esrly middle college charter public school district. The general education requirements for graduation are identicle to the 30 credits required by Henry Ford College. If an ATA students wants to transfer to a 4 year university to earn a bachelors degreee the should choose the michiagn Tranfer agreement patthway. If a student wants to earn an assoicates degree or enter the workforce they should choose applied degrees.

STRAND THREE: Sustaining Change through Business and Civic Leadership

Engaging employers, educators, and community leaders to collaborate in building and sustaining educational programs that promote community growth and prosperity by preparing students for future work and citizenship. A key goal is to work with the community to create jobs where students can go from high school to industry.

Reaching the Broader Community

The Advanced Technology Career Academy has a long history of collaborating with local businesses, communities, and academic partners as part of the Ford Next Generation Learning Communities (Ford NGL). The founding concept of the Academy is merging the last two years of high school with the first two years of college to prepare graduates to be leaders in their communities and to be successful in the workforce. Beginning with the Ford Partnership for Advanced Studies (FordPAS) and the later implementation of the Platinum Model of the FordPAS Curriculum, the Academy pursued an innovative approach to education that aligns the needs of businesses and postsecondary institutions with those of high school. This philosophy has grown over the years with the Ford NGL and is evident in the Academy's mission statement:

> *To provide students with high-quality interdisciplinary learning experiences that challenges them academically and develops their problem-solving, critical thinking, and communication skills. By building strong local partnerships with businesses and higher education, Advanced Technology Academy and our Ford PAS BEAC encourage and prepare students for success in college and professional careers in fields such as business, engineering, and technology.*

Advanced Technology Academy and its community partners share the same vision for the next generation of learners. The Academy and its business and educational affiliates will be able to continuously add to its already-established curriculum of specialized pathways. Pathways in the fields of business, engineering, healthcare, public service, and technology are designed to be both academically challenging and relative to personal student interests. The Academy regularly seeks out the input of its learning community; for example, civic and business leaders provide meaningful paid summer internships so that students can expand their knowledge beyond the scope of academic preparation at the Career Academy. These leaders open their places of business both to mentor students and to foster students' growth and development with real life experience. ATA and its stakeholders share a common goal: to educate the whole student and to guide each to a future of success in their chosen career.

Business Education Advisory Committee

What is the Business Education Advisory Committee (BEAC)?

The BEAC is a partnership of business, higher education, and community representatives drawn from Ford PAS communities. The BEAC is an integral part of the Ford PAS program and plays a key role in ensuring its success. The BEAC ensures that the program provides vital, supportive links between the classroom and local businesses, institutions of higher education, and community organizations. These links enable students to bridge the gap between academic learning and challenges they will face in higher education, the community, and the workplace of the future.

Current BEAC Activities

The BEAC continues to pursue funding for programs as its top priority. With a $25,000 challenge gift now secured, the committee is pursuing matching contributions with a goal of generating $50,000 to continue the Career Academy Summer Internship Program. In addition, the committee expanded its goals, working with the ATA Foundation to achieve long and short term goals including:

- Funding scholarships
- Adding a second field house/performing arts center
- Creating a regulation-sized athletic field for football/soccer games
- Upgrading of LED lighting
- Integrating and enhancing classroom instruction with industry-relevant experiences with the introduction of a school store for the business track; health and nutrition courses for the healthcare track; robotics for the engineering track
- Collaborating with Ford Volunteer Corps and other community partners

ATA's Director of Institutional Advancement Appointed Vice Chairman of HFC Foundation

Steve Quinlan, ATA's Director of Institutional Advancement and member of the Henry Ford College Foundation Board of trustees was appointed the position of Vice Chairman of board April, 2020. The Vice Chairman will rotate to the Chairman's position in 2022.

ABOUT HFC FOUNDATION

The Mission of the HFC Foundation is to raise charitable support for Henry Ford College by building long term relationships with such constituents as business, civic and community leaders; alumni; corporate and philanthropic foundations; and individuals of influence and affluence, in support of the goals and objectives of the College and the educational and career aspirations of HFC students.

The Henry Ford College (HFC) Foundation was established in 1982 as a tax-exempt organization for the explicit purpose of raising funds in support of the College's mission of providing affordable and accessible educational opportunities to area students and residents. The Foundation is led by a voluntary Board of Directors, made-up of area business, labor and community leaders who share a passion for quality education for all. To create awareness and generate support for Henry Ford College by building sustainable relationships with such constituencies as business, civic and community leaders; alumni; corporate educational partners and philanthropic foundations; and individuals of influence and affluence, to encourage investment in and advocacy for the College. Through its efforts, the Foundation promotes awareness and enthusiasm for HFC throughout the community.

Ford NGL Releases New Employers Guide to Career and Technical Education Partnerships

The Coalition for State Biosciences Institute points out that many of the future jobs in life science require skills that are developed in a time span of less than four years. The article goes on to point out that some states are doing a good job bridging the gap between industry, trade organizations, and government agencies to create up-to-date programs that teach needed skills for the ever-evolving talent market. This phenomenon is widespread in various industries and Ford Next Generation Learning took note of the trend and is aiding in developing it by the creation of the 32-page handbook on An Employers Guide to Career and Technical Education Partnerships. Focused on helping business and educational facilities work together to develop programs that cater to the development of a skilled first economy whereby employers become co-investors to educators in the success of young people.

Henry Ford Health System School-Based Health & Wellness Center at ATA

The Advanced Technology Academy is one of the first school-base health and Wellness centers in the state of Michigan. The program is being administered in several phases. The first phase is the primary staffing program where a registered nurse and staff are assigned 8 hours per day 40 hours per week

The second phase links clinical care to preventive care in one independently operated health center such as on-site triage and first aide, physician on-site and available, wellness and prevention, case management, and value added services for students, parents, and staff. The first phase include a half day registered nurse with a full time nurses aide which will be expanded to 40 hours per week in the second semester.

The onsite Health & Wellness Center will provide the following services:

- Primary point of contact with parents / guardian & HFHS
- Onsite triage and first aid
- Oversight of student prescribed medications with parents' permission
- Coordination of basic health care services
- Coaching and education health services
- HFHS Fairlane Center for advanced healthcare
- Covid screening - temp checks, logs etc.
- Blood pressure check
- Coordinate HFHS Generation with Promise and Cooking Matters
- Wellness and prevention health service education

Sports physicals, wellness exams, and health education programs continue to be hosted. Historically the busiest time of day to see patients is from 11 a.m. - 1 p.m. Approximately 40 - 60 students per day are seen. Most of the health issues that were dealt with include seizures and diabetes.

In 2022 the Henry Ford Health School-based Health & Wellness Cneter doubled in size with the renovation of the adjacent classroom. The addition included 3 exam rooms in order to host private tele-health examinations with students and staff. There are plans to expand health care staff by adding a social worker and a behavior specialist.

FORD MOTOR COMPANY CONNECTIONS

2019 ACTE CareerTech VISION Conference

The Association for Career and Technical Education® (ACTE®) hosted the2019 Annual CareerTech VISION Conference in Anaheim Caliofornia on December 4 thorough December 7th, 2019. This conferernce is the largest gathering of career and technical education (CTE) professionals in the country. The Association's annual conference provides professional development to thousands of CTE professionals through hundreds of CTE sessions covering the complete spectrum of secondary and postsecondary CTE, classroom tools, public policy updates, and more. The CareerTech Expo and Career Pavilion also provide opportunities to network with business and industry representatives.

Both Hannah Hawthorne, Deputy Adminisytrative Director, and Cynthia Andersen, EMC Director, attended the conference which included Ford NGL sessions.

ATA continues to be a partner with Ford NGL through our ACTE membership, activities, meetings and instructional webinars. As Ford NGL has a partnership with ACTE, it is a perfect fit for all our CTE Program.

2016 Ford NGL Annual Conference

Ford Next Generation Learning (NGL) held its annual conference in Palm Springs, California, last October. The meetings allowed administration to meet the new liaison for Michigan NGL schools. This year the Academy is in the process of updating its original master plan. In order to enhance the districts wall to wall career academy approach which infuses career readiness skills throughout its entire curriculum the conference taught many new pedagogy strategies which mainly focused on design system thinking and problem based learning. ATA administration will train teachers on these strategies during up-coming professional development sessions.

Ford Motor Company Fund Inaugural Community Partner Gathering

Ford Motor Company Fund brought community members together for its first inaugural Community Partner Gathering in November. Its aim was to discuss a plan to unify Southeast Michigan community service providers in a way that will align systems so that community needs are resolved and gaps are resolved. Central to the discussion brought up at the meeting was how Ford conducts its business through design process thinking and relating it to various community foundations. Leading the conversations keynote speaker was Mr. Jim Vella, President of Ford Fund.

Ford Motor Company Holiday Blessing – Adopt a Family Program

The Ford Motor Company Fund donated $5,000 and 6 volunteers to support this project for the annual "Holiday Blessing – Adopt a Family" project. On December 9th, administrators, students, and Ford volunteers worked together to create food baskets and deliver them to families in need. This program teaches students about the value of compassion and giving back to others. Thirty (10 per school) deserving families received the provisions the fund provided

Ford Motor Company Fund Volunteer Corps Adopts 30 Families

The Advanced Technology Academy serves a large population of low-income families. This is evidenced by over 85% of the student body who qualify for free or reduces lunch. In order for students to be prepared to learn they must have the proper tools. The first building block in the learning tool kit is three nutritious daily meals. On December 12, 2014 the Ford Volunteer Corps Adopt a Family Holiday Giving and Sharing project was conducted. This project focused on 30 deserving families who would not normally receive assistance during the holiday season. The ATA Administration and Faculty identified 10 deserving families in each school -- Elementary Middle and High School for a total of 30 families. The Volunteer Corps members along with School administration, faculty and students assembled and delivered baskets of cheer to the 30 families.

ATA Gets Fresh Look & Weather Station

On September 11, 2014 members of the Ford Volunteer Corp worked on two campus projects: Building a school weather station and campus beautification.

Weather Station Assembly

The academy has committed significant resources to teach Science, Technology, Engineering, Art and Mathematics. In an effort to teach students about weather three members of the Ford Volunteer Corps worked with a small group of students, IT staff and faculty to assemble a personal weather station.

The addition of a personal weather station allows the Academy to join a large community of on-line weather stations and expand the capability of teaching STEAM through the data provided by the station. It will record and monitor temperature, humidity, precipitation, barometric pressure, wind speed, and wind direction to ATA. It means a great deal to get volunteer assistance with keeping the school grounds maintained and teaching students about new technology. I always think it's great when businesses work with schools." said ATA High School Principal Cynthia Andersen.

Campus Beautification

A safe and healthy educational environment begins with a great first impression. We believe that a well maintained educational environment is a fundamental element for learning. This begins by maintaining the Advanced Technology Academy grounds.

Twelve members of the Ford Volunteer corps assisted the Academy to beautify the entrance of the school campus. This project included replacing pine trees along the left and right side of the main entrance, installing ground cover under the spruce trees that line the front entrance and fall clean up.

Ford Volunteer IT Project

A group of 16 ATA students worked with eight Ford Volunteers from the Ford Information Technology group and six members of the faculty / administration on a project to increase communication on campus through the use of technology. This project links with the Ford PAS modules and reinforces current teaching concepts. This project began on December 1st and concluded on January 31st. This pilot assignment utilized Ford Volunteer Corps subject matter experts in directing a team of students to gain a deeper understanding of how information technology can increase school wide communication. The students provided a final report of their results to the Ford Volunteers on January 31, 2012.

DRIVE 4UR SCHOOL

Drive One 4UR School

Advanced Technology Academy took part in the Drive One 4UR School Program test-drive fund-raising event sponsored by Fairlane Ford and Ford Motor Company. All members of the ATA community are welcome were encouraged to participate in this Ford sponsored annual event. ATA's faculty, students, and families that are older than 18 years old and possess a valid driver license are encouraged to participate. For every test-drive completed, ATA received a donation of $20 from Ford Motor Company for extracurricular school activities. This event took place at the Academy's Dearborn campus.

This innovative program was originally piloted at ATA several years ago and spurred the development of Drive 4 UR Community which enables community organizations to gain money from the program. Over the years $35 million in donations and thousands of events across America have taken place.

Ford NGL Donates Disposable Masks

Through collaboration with them ATA attained 10,000 disposal masks for students and ATA staff to utilize. It is also offering training sessions to academic leaders and teachers throughout the year. Ms. Andersen, CTE Director, completed a 6 week boot camp offered during the summer. The modules are taught by leading experts and Ford NGLU members.

Ford Volunteers Build Playground for ATA Preschoolers

When the preschool class at Dearborn's Advanced Technology Academy arrived October first, they noticed a brand new playground ready for them to break in.

A handful of Ford Motor Company employees spent September 11 building the playground from scratch. The volunteer efforts were part of the company's Global Week of Caring, during which all employees are encouraged to take part in local projects to better the community.

Eric Mitchell, with Ford Public Affairs, explained that volunteering is an every day part of the Ford mantra–but Global Caring Week is when efforts are really stepped up. "It's about community building," he explained. This was part of an Accelerated Action Day, which Volunteer Coordinator Terry Berry said drew out the most employees for community projects in one day. "We decided Sept. 11 would be our volunteer day," Berry explained, "and it kept growing and growing."

Volunteers at ATA–comprised mostly of members of Ford's legal department–spent their day in the sun digging holes, assembling equipment, and making sure that the Dearborn charter school's youngest students will have a place to play.

Ford High School Partnership Program

During the 2014–2105 school year the Academy entered into the most extensive Community Based Partnership with the Ford Motor Company High School Partnership Program. Multiple interactive programs were conducted with the advise and assistance of Ford Motor Company staff. Events included: Crash Test Demonstration, Mock Interviews, Ford Rouge Tour, Fireside Chat with the VP of Global Quality In the Executive Board Room at WHQ, Business Plan Panel Review, Six Sigma Demonstration, Diversity Event, Career Day, etc.

Ford Motor Company National Manufacturing Day

ATA students were invited by the Ford Office of Government Affairs to participate in Ford Motor Company's National Manufacturing Day where they explored career fields in the manufacturing sector. Students took a full tour of the Ford Factory Tour and saw a presentation by Henry Ford College about new training and technical programs offered at the M-Tech Center. At the M-Tech center, students saw the Industrial Sewing classroom, High Bay with industrial robots, and a virtual welding system.

Two of our students were presenters at the Manufacturing Day Breakfast telling the audience about their experience during Manufacturing Day. They were the only students to present and they did a great job. Several weeks later, Mr. Harold Lefall, Manufacturing Day Coordinator from SEMCA, Michigan Works came to the school to present both students with a book he wrote, a sweatshirt and $50.00 in cash.

Mechatronics Advisory Group

The Academy has established the Mechatronics Advisory Group to support the academy in developing the career pathway. The chairperson of the committee is Mr. Jerry Bonar, who is the manager of the Ford Engine Plant in Lima, Ohio. He took over for Mr. Kevin Ford who was the previous chair and is now on our Board of Directors. The main topic of the meeting was work based learning which is a requirement of CTE Funding. Every student in the program must have a real work based learning experience before they exit the program.

Ms. Ferguson took several Mechatronics students to the Skills USA Leadership Conference. The students in the Mechatronics Program plan to compete in the Skills USA events early next year.

Ms. Ferguson's First Robotics Team is attending training sessions at the MEZ, they received grants from Ford and have several other grant applications turned in.

Ford Volunteer Corps and ATA 4th Graders Create Mural for Media Center

Ford Volunteer Corps continues to be a significant community supporter to ATA. 15 members of Ford Volunteer Corps came to the Academy's campus to work with 25 fourth grade students and ATA art faculty to create a life size mural that depicts the teaching and learning community in which the Academy is located. Designed by the 4th students, the mural's inspiration came from recent classroom instruction and a Coordinated Learning Experience (CLE) to the Detroit Historical Museum. The objective for this project was for elementary students to gain knowledge and an appreciation of the history of our community. The mural took about eight hours to complete and was made possible by a grant from the Ford Volunteer Corps. ATA congratulates all those that worked on the mural, and enhanced the Media Center with an outstanding art piece. Dr. Richard Schneider, ATA Board President, remarked, "The culminating product of the mural, resulting from instruction inside and outside the classroom, clearly represents the Academy's commitment to project-based learning."

Ford Volunteer Corps Helps Build the Next Generation of Business and Technology Leaders

Ford Motor Company is leading by example through its volunteer corps. On Friday, September 10, the Academy hosted 30 members of the Ford Volunteer Corps.

Barry Hawthorne, Executive Director of the Advanced Technology Academy (ATA), stated, "We were pleased to host the Ford Volunteer Corps visit on our campus. In just one day, the group donated 240 hours of their time to assemble a greenhouse and put in over 100 yards of woodchips around our new playground equipment. We now have a safe playground for the grade school and a greenhouse for biological experiments in grades K to 12. These improvements will have a big impact in our community."

"We owe the Ford Motor Company Volunteer Corps a great deal of thanks for their contribution to the high quality of instruction at Advanced Technology Academy. Ford Motor Company's commitment to education at the kindergarten to high school level reinforces the importance of creating the next generation of leaders," stated Steve Quinlan, Director of Institutional Advancement at ATA.

Dr. Richard Schneider, President of the Advanced Technology Academy Board and Vice President of the Advanced Technology Academy Educational Foundation expressed his gratitude to Ford Motor Company for its generosity and leadership. Dr. Schneider remarked, "Ford Motor Company provided our students with examples of the importance of community service and creating green opportunities in schools."

ATA Receives Grant to Implement New Learning Experience - "Buying A New Car - A Road Map to Personal Finance"

Thanks to a $7,990 grant from the US Department of Education (USDE) and the National Council for Economic Education (NCEE), ATA students will have another real-world learning experience added to their Ford PAS curriculum. This financial award allows the Academy to develop and implement a project-based activity centered on buying a new car. This supplement to the Ford PAS curriculum reinforces valuable life lessons in consumer economics and personal finance.

Purchasing a large-ticket item, such as an automobile, involves a number of financial decisions that students face as they approach adult age. This project, "Buying a New Car – A Road Map to Personal Finance", equips students with skills (1) to develop a personal budget, a system to organize their financial information; (2) to understand the meaning of savings, credit, credit reports, poor credit habits and credit scores; (3) to evaluate credit making decisions, the time value of money, consumer lending and borrowing practices, insurance / risk management, purchase verses leasing; and (4) to compare and contrast personal financial options.

The project will take place over 4 one hour class periods and end with a capstone integrated coordinated learning experience at Fairlane Ford and, if possible, a component at Ford Motor Credit at Ford Motor Company World Headquarters will be arranged.

Partnering with the Fairlane Ford, a local member of the Academy's Business Education Advisory Council (BEAC), allows a hands-on coordinated learning experience of walking into a dealership and going through the process of purchasing or leasing a vehicle. Fairlane Ford will be recruiting local lenders to provide a panel of guest lectures.

A critical component to the Ford PAS program is to create positive change through businesses and civic leadership by engaging employers, education and community leaders to collaborate in building and sustaining educational programs that promote community growth and prosperity by preparing today's students for future careers and citizenship. Julie Turla, President and General Manager of Fairlane Ford, remarked, "Providing this access to the process of buying a car is an important step in creating a group of knowledgeable young people who will be able to make an informed financial choice on their first large-ticket item purchase."

Henry Ford Health Systems Teaches Students About Healthy Living

This year Henry Ford Health Systems has assisted Advanced Technology Academy in making health education a top priority for all students. It has done this through implementing its various health and nutrition courses in each school level.

PE-NUT Program

Elementary students learned about healthy living and nutrition through participating in Henry Ford Health Systems PE-Nut program. This interactive hands on curriculum was taught by a certified dietitian that captured students interests by leading them through fun activities which included cooking healthy snacks. Nutritional information and cooking utensils were given to students so they could extend their learning by bringing the lessons home with them. A book exchange program that provided books to be shared among their peers was also implemented. In order to ensure that the curriculum is sustainable the principal was given the whole curriculum, picture books, and plush toys in the shape of vegetables that will be used within the classrooms.

Cooking Matters

Thirty middle school students participated in the after school cooking club sponsored by Henry Ford Health Systems. This five week program taught students about nutrition through cooking healthy meals and snacks. At the conclusion of the program students walked away proficient in reading food labels and able to make healthy food choices.

Nutrition Classes

Every Wednesday, the Introduction to Health Careers high school course met with Jackie Horstman from Henry Ford Hospitals. During their meetings students learned about Instant Recesses and Peer Education programs. Instant Recess is a 5-10 minute break during the work-day where 9th grade students stop their lesson and dance to choreographed music led by Health Careers students. ATA's Health Careers students also participated in the nutritional program called 5210, in which they taught their fellow peers about the importance of eating more fruits and vegetables, exercising, reducing time spent on TV and in front of other digital media, and reducing the amount of sugary drinks they consume.

Community Partnerships

ATA Partners with Worldwide Classroom Sponsored by Cleveland Clinic

ATA will emphasize a global education for all students. We have partnered with the Worldwide Classroom sponsored by the Cleveland Clinic. The Worldwide Classroom program includes interactive, real-time courses delivered through video-conference or live stream technology that address a wide range of important health topics and healthcare careers. There are two unique learning series: Hot Topics - a course that explore an array of important health topics with one health topic being spotlighted each month and Meet The Caregivers - a course showcasing the work of Cleveland Clinic caregivers whose careers relate to the health topics being spotlighted each month.

Bridging Educational Gaps through Community Sharing

Sharing successful practices with other educational entities is an important value ATA upholds. In order to enhance the presence of Ford Next Generation Learning with charter schools throughout Michigan a meeting was held at Ford World Headquarters between Academy administrators; Dan Quisenberry, Executive Director, Michigan Association of Public School Director; and Mike Schmidt, Director of Education and Community Development, Ford Motor Company Fund.

Michigan Association of Public School Academies (MAPSA) Conference 2014

Michigan Association of Public School Academies hosted a Innovators in Education Conference on October 2-3, 2014. Three ATA administrators attended the event which featured innovative breakout sessions, interactive workshops, ED Talks, networking opportunities and Peer-to-Peer Talks. Throughout the conference the following topics were discussed:

- Assessment to Drive Student Achievement
- Literacy by 3rd Grade
- Recruiting, Developing, and Retaining Talent
- Data-Driven Marketing
- Parent and Community Partnerships

ATA Attends the Region 25-Wccan Joint Meeting at Henry Ford College M-Tec Center

ATA administrators attended the Region 25 Career Technical Education Council and Perkins Coordinators - WCCAN Joint Meeting at the Henry Ford College M-TEC Center. The topics included the Perkins Monitoring Process overview, introduction to the Wayne County College Access Network, 'School to Career On-Ramps' Model, Discussions, and collaborative support/expansion of the model.

2019 National Charter School Conference

The 2019 National Charter School Conference was held June 30-July 3 at the Mandalay Bay Conference Center in Las Vegas, Nevada. The National Charter Schools Conference is the premier conference for current and aspiring charter school leaders. The conference format was setup into 5 strands each with its own specialized area (Governance, Educate, Lead, Operate,Advocate.) David Esper, Board President; Barry Hawthorne,Chief Executive Officer; Tarik Khoury, High School Principal; Chis Schultz, Assistant Dean of Students and Athletic Director; Dan Addison, Mechatronics Program Administrator, all attended the general session where over 5000 charter school educators were in attendance. Throughout the event the academy representatives each took part in breakout sessions related to their particular strand: David Esper - Governance; Barry Hawthorne - Lead & Operate; Tarik Khoury - Lead & Educate; Chris Schultz - Lead & Educate, Dan Addison - Operate.

Michigan Career Education Conference "Preparing for the Future of Manufacturing"

Members of the Academy's administration presented at the Michigan Career Education Conference *"Preparing for the Future in Manufacturing"* on Tuesday, January 28, 2020 at the Amway Grand Hotel in Grand Rapids, Michigan. The presentation highlighted the Academy's high school to associate degree educational model in partnership with HFC and ATA's Early Middle College Mechatronics Program.

Ms. Janice Gilliland, Dean at Henry Ford College; and Advanced Technology Academy employees: Ms. Ferguson, Mechatronics Teacher; Mr. Addison, Mechatronics Lab Supervisor; and Mrs. Andersen, CTE Director; along with Mr. Everett and Mr. Roberts from Amatrol presented.

Of significant importance during this presentation was the joint effort of Henry Ford College, Advanced Technology Academy, and Amatrol to prepare high school students for graduation by equipping them with a deep understanding and skill set in mechatronics.

Ms. Gilliland presented about dual enrollment and transfer credits to Wayne State University. Mr. Everett talked about the equipment and certifications available. Mr. Addison presented information about our Middle School Program and Ms. Ferguson discussed our high school curriculum.

Meeting the Diversity Challenge

The Advanced Technology Academy is in the process of finalizing partnerships with several community based organizations in southwest Detroit to expand its community engagement in Southwest Detroit and to better serve the areas increasing Hispanic population. These partnerships include: SER-Metro Detroit, Southwest Solutions, and Latino Family Services. These partnerships will provide additional resources needed to create a life of self-sufficiency and self-fulfillment and enhance the quality of life for our student population.

A MOU has been written to form a linkage between ATA and SER-Metro Detroit by establishing and expanding a referral center held within the ATA Career Center which seeks to: diversify staffing opportunities to the Hispanic community; place students into their Summer Youth Internship Program; provide adult education courses in the evenings; market ATA's educational opportunities.

The partnership with ATA and Southwest Solutions will mirror that of SER-Metro Detroit but also incorporate seminars hosted by Southwest Solutions on ATA's campus to families regarding neighborhood revitalization grants; providing referral services for homeless families; assisting ATA with the development of a restorative practice model; working with ATA counselors to provide wrap around services for students in need; coordinating educational programs including articulation, grants, program development and evaluation.

ATA has also maintained its relationships with Focus:Hope, Jewish Vocational Services, and Access - an Arab community group in Dearborn that provides the Academy with after school programs. These community organizations provide valuable resources to our student population and enhance the diversity of our Academy.

Corporate Giving

AT&T Backpack Donation

State Senator Morris W. Hood III and State Representative George Darany donate backpacks to middle school students through the AT&T Pioneer program. In 2016, the entire 7th grade class received a free brand new backpack placing smiles on students' faces.

General Motors "Donors Choose" Grant

Thanks to a generous donation from General Motors of Ohio, ATA's computer science students can explore computing with Raspberry Pi devices which are tiny computers that can be programmed to perform a variety of tasks and connect to different sensors and peripherals while connecting to the internet. The donation was funded through a Donors Choose application made by Dr. Eric Richardson.

Gleaners Food Distribution Program

Since 2018 ATA continues to partner with Gleaners to provide food distribution to needy faimilies in the surrounding community. In 2019 ATA was featured as a dsitribution location in the Gleaners on-air Mow Down Hunger Telethon and Video on Chanel 2 Fox TV network . This program supplies families with 30 pounds of fresh nutritious food to help fight hunger and provide relief to struggling families. Distribution takes place approximately once a month throughout the school year. Over the past 5 years a total of approximately 7,500 familes were served.

Students give back to the community

American Heart Association Fundraiser - 3 vs. 3 Basketball Tournament

Middle school students participated in a fundraiser with the American Heart Association (AHA). Representatives from the AHA as well as Academy staff coordinated a 3 on 3 basketball tournament and 'Jump for Heart' event to help promote exercise. More that $150 was raised by students and staff for the AHA.

Trike-A-Thon

Every May, preschool students ride their bicycles and tricycles for over 2 hours to raise donations for St. Jude's Children's Hospital and Research Center. In 2016, they raised almost $1,000 in donations!

National Honor Society

NHS students went to the Gleaner's Distribution Center where they worked to put together food orders that are shipped to several Detroit destinations. This community service event takes place several times during the year. NHS students also take their turn distributing food to ATA familie as part of their required community service hours to graduate.

NHS also helped Nora Thomas, Food Service Director, put together food baskets for ATA families. The costs of the baskets are being sponsored by a grant from the Ford Motor Volunteer Division.

Engaging Parents, Guardians, and Key Family Members on Behalf of Student Success

Parental involvement is a continuing challenge in all school districts, and this problem grows in urban school districts. Advanced Technology Academy has traditionally seen little parental involvement. Throughout the development of the Master Plan, newly implemented strategies were created with a hope to combat this persistent problem, and have proven to be successful.

Phase One

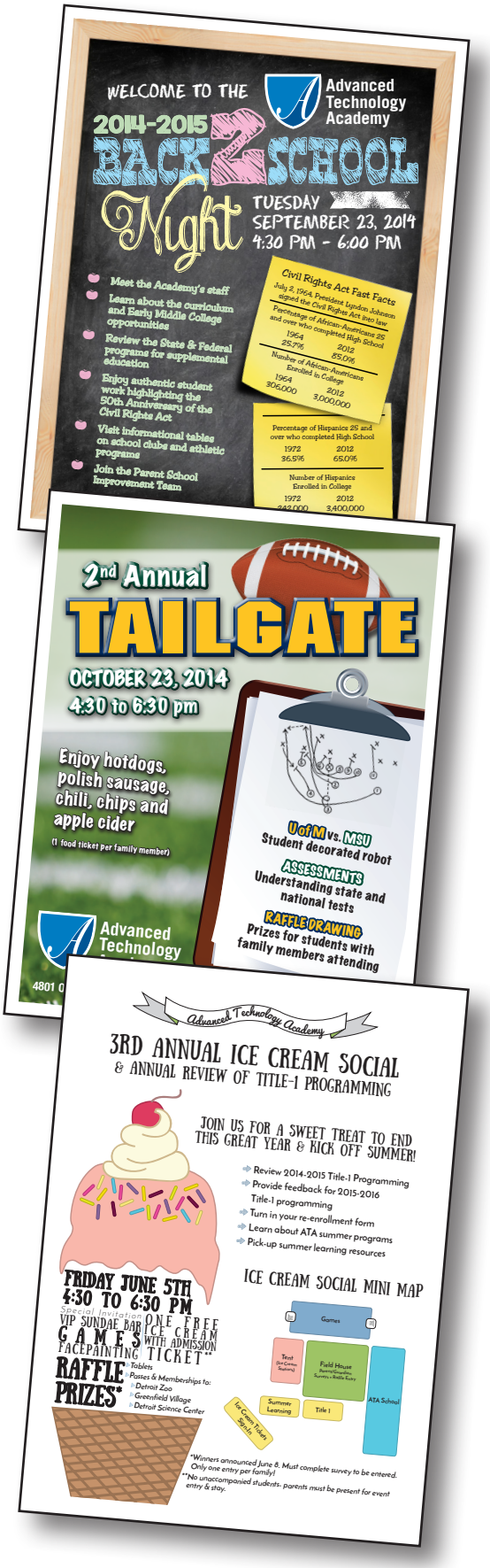
The Master Plan calls for a three-year roll out of strategies to engage parents in their child's education. The first phase schedules a meeting of parents, teachers, administrators, higher education representatives, and civic leaders. This collection of individuals will be charged with the formation of an ATA Parent Association (PA) to support implementation of ATA's Academy Model. A subset of the PA will include two ad hoc committees: 1.) Student Ambassadors; and 2.) Higher Education. The PA will be structured with an emphasis on leadership and work to become an official member of the national PA. The Student Ambassadors Committee will be a cohort of students responsible for performing community service for the school and broader community, and the Higher Education Committee will be a faculty team responsible for establishing detailed objectives for student interest and career awareness. The creation of the PA and its subcommittees will help to engage parents in their students' education by exposing them to the career pathways offered at the Academy as well as by allowing them to form a close relationship to the Academy faculty and student body.

Phase Two

The second phase calls for the expansion of the PA to include more parents, community members, teachers, and higher education representatives. Community funding partners will be recruited to help provide resources to allow the PA to conduct programming, and a new course designed for parents and guardians will be added to the Academy curriculum – College101. The course will cover topics including, but not limited to: college exploration, FASFA step-by-step, scholarship research, college application process & procedure, ACT and SAT college entrance test information. College 101 will provide parents with tools to help their students make good choices while on their paths toward college degrees as well as with the know-how to finance that education.

Phase Three

The third phase is to become self-sufficient. The group will provide content for a monthly email newsletter publication and establish its own goals and programming objectives with input from the administration and faculty. College programming will become more robust and expand to include more University partners, increasing students' post-secondary options. Seniors graduating from the Academy will have a clear pathway developed, one which leads to a college degree and eventually to a career in their chosen field.



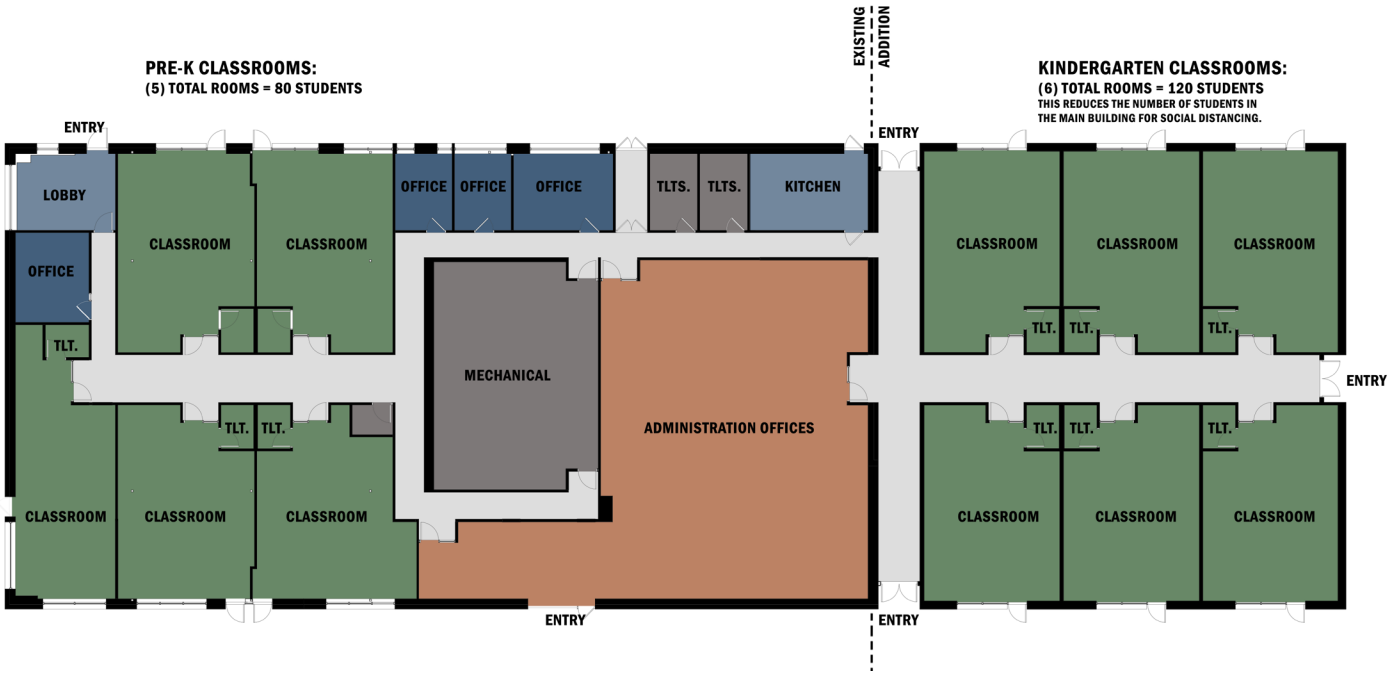
A LOOK TO THE FUTURE

Expansion of the Henry Ford Health & Wellness Center

Relationships with Henry Ford Health Suystem are strengthening as the ATA team develops a more thorough understanding of what services the scope of the contract include. Currently, ATA has a certified part time RN on staff that is able to provide triag, first aid, oversight of medical plans, and coaching/ education services. The first goal being pursued outside of the current services is linking the ATA community directly to a doctor virtually. To facilitate this goal the Academy expand the Henry Ford Health & Wellness Center to include 3 new private exam rooms. This build-out is in support of phase 2 operations of the center as part of our Health & Wellness Plan. Phase 2 links clinical care to preventive care in one independently operated health center.

Early Childhood Development Center Build-out

The Academy is in the process of planning an expansion of the administrative building to create an Early Childhood Development Center. This center will house the GSRP and Kindergarten classes. The goal of the center is to create a better learning environment for our younger students promoting increased learning needed for our rigorus curriculum in the upper classes. Additionall, moving the Kindergarten will increase the number of classrooms available in the Main building and allow for increased enrollment.



Advanced Technology Academy

A MICHIGAN PUBLIC CHARTER SCHOOL DISTRICT

LAKE SUPERIOR STATE UNIVERSITY | DAVENPORT UNIVERSITY | EASTERN MICHIGAN UNIVERSITY | HENRY FORD COLLEGE | DEARBORN

OUR MISSION

To provide students with high-quality interdisciplinary learning experiences that challenge them academically and develop their problem-solving, critical thinking, and communication skills. By building strong local partnerships with business and higher education, Advanced Technology Academy and our Ford NGL Business Education Advisory Council encourage and prepare students for success in college and professional careers in fields such as business, engineering, and technology.

"It is the policy of Advanced Technology Academy that no person shall, on the basis of race, color, religion, national origin or ancestry, sec, age, disability, height, weight or marital status be excluded from participation in, be denied the benefits of, or be subjected to discrimination with the respect to any educational program, activity or employment"

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