

Independent School District 834
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Making High School More Relevant for Students: Career Pathways Background information to the School Board - August 16, 2019

In the fall of 2017 grade reconfiguration in Stillwater Area Public Schools was completed, allowing Stillwater Area High School (SAHS) to serve students in grades 9-12. In addition to adding approximately 700 ninth graders to the school, we also welcomed approximately 30 new staff members. As such, we began to work together as a staff to determine the new identity of our high school, beginning with a careful examination of our strengths and areas for growth. Following that examination, we formed three Vision Teams (which include both staff and students) to consider how we could better meet the needs of our student, including one team that was dedicated to improving the academic experience for ALL SAHS students.

Using the Human-Centered Design Thinking approach, this team began working in earnest in the spring of 2018. After extensive Empathy work that involved a survey of dozens of SAHS students about their high school experience, three goals emerged:

- Increase student <u>ACHIEVEMENT</u> for the "majority in the middle"
- Prepare students for the future by increasing <u>OPPORTUNITIES</u> to engage in a variety of passion and interest-based offerings
- Offer programming that allows all students to find <u>RELEVANCE</u> in their coursework.

After visiting and researching multiple school districts (including Alexandria, Mounds View, White Bear Lake and Burnsville) that offer a **PATHWAYS** (often called "career pathways" or "career clusters") program, the team selected this concept as a model to address these goals. A **PATHWAY** can be defined as a series of "structured and connected education programs and support services that enable students, often while they are working, to advance over time to better jobs and higher levels of education and training." (Dion, 2018)

The team has identified four areas as potential PATHWAYS at SAHS:

- BUSINESS
- HEALTH SCIENCES AND HUMAN SERVICES
- ENGINEERING, MANUFACTURING, TECHNOLOGY, AND NATURAL RESOURCES
- ARTS

Within each **PATHWAY**, multiple **PROGRAMS OF STUDY** emerged. While the term **PATHWAY** for our purposes represents a broad classification, **PROGRAMS OF STUDY** represent more specific progressions under each **PATHWAY** heading. For example, the ARTS Pathway could include Programs of Study in "Performance," "Fine Arts," and "Journalism & Communications."



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The Vision Team has conducted a comprehensive course audit of all electives in the high school curriculum in order to align existing courses to specific **PROGRAMS OF STUDY**. As this audit progressed, an important guiding principle was the idea of alignment to **PATHWAYS** offered at regional post-secondary institutions (Century College, University of MN, St. Thomas University).

Additionally, the team conducted a quantitative analysis of each **PROGRAM OF STUDY** in order to assess health and viability as each **PROGRAM OF STUDY** should include a natural 9 - 12 grade progression of courses, early college credit opportunities, community partnership opportunities, and offer alignment to jobs and careers that are in demand and allow students to earn a living wage. While some of the draft **PROGRAMS OF STUDY** are already robust, there are also some that should be considered under development for another 1 -2 years before we can confidently offer them to students and families as a viable **PATHWAY** experience.

Partnering with our community is another important component of the **PATHWAYS** concept. We've already been in conversation with both the Greater Stillwater Area and the Woodbury Area Chamber of Commerces, and have met with a number of community businesses and professional organizations that have expressed a strong interest in partnering with the school district to develop solid work-related experiences for our students. These opportunities would align with our proposed **PATHWAYS/PROGRAMS OF STUDY** and provide the relevance our students desire.

Going forward, it is our hope to repackage our existing course registration guide to reflect the proposed PATHWAYS and **PROGRAMS OF STUDY**, so that students and families are more aware of how the SAHS curricular offerings offer relevance and opportunities to experiences outside of the traditional classroom. This will require support from the School Board, the SAHS staff, and the entire school district community.

"Why Do I Need To Learn This?"

Making high school more relevant

CAREER PATHWAYS

School Board Work Session - August 20, 2019





Doing well in preparing students for 4 year secondary education. Need to improve opportunities for secondary education options that are not 4 year.

Gap between what many students needs and interests are. Missing chances to align better with job market and financial capacity of students to attend.

Community Members



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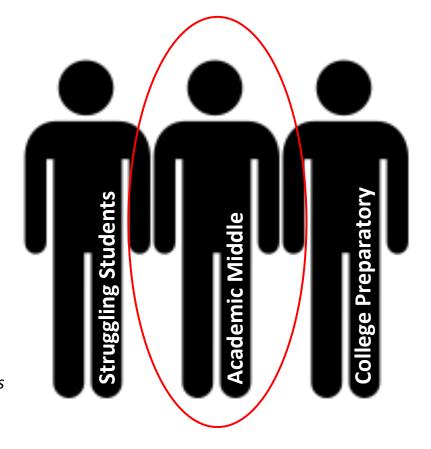
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SAHS Innovation Team

Designing With Students in Mind

The team's objective is to redesign the high school experience to better meet the needs of <u>ALL</u> students.

Innovation Team includes teachers, students and administrators





Empathy Work Completed 2018-19

Students feel ...

- overwhelmed with the amount of homework.
- there is not enough time to do work.
- like there aren't enough extended learning opportunities (beyond school offerings).

- like they do not understand what skills are needed beyond high schools, and/or qualify as skills instruction.
- like they don't have enough time in their schedule or that the schedule is flexible enough.
- unaware of the relevance of our course offerings.



Our Plan to Redesign SAHS

Academic Achievement

Relevance

Opportunities

Meeting the needs of <u>ALL</u> student with renewed focus on the "academic middle"

Developing career pathways and programs of study based on industry and regional college programs

Creating options for students to apply experiential learning through partnerships with local businesses



What Are Career Pathways?

- Pathways let students explore a variety of careers through specific coursework aligned to industry and regional college programs.
- Exploration continues with opportunities that allow students to follow their interests and prepare for further study, training or work experiences.
 - These opportunities may lead directly to careers or to a variety of post-secondary options.





Example:

Engineering, Manufacturing & Technology Pathways

Mounds View Public Schools offers our students the opportunity to explore a variety of careers through specific coursework aligned to industry pathways. Exploration continues with exposure to industry experiences that allow students to follow their interests and prepare for further study, training or work proportunities. These opportunities may lead directly to careers or to a variety of nost-secondary onlines.

Working directly with their deans, students can erroll in one or more recommended pathway core courses depending on interest areas. Some of these courses offer the opportunity to earn free college credit. The intent of pathways is to offer students the opportunity to explore different careers prior to graduating from high school.

INDUSTRY SECTOR: Engineering, Manufacturing & Technology









Our Vision for Pathways

- Business: Entrepreneurship/Marketing/ Management
- Arts: Performance, Fine Arts, Communications
- Engineering, Manufacturing, Technology, and Natural Resources
- Health Sciences and Human Services

Align our current course offerings within Pathways



4 Path

Health Sciences & Human Services

* It is recommended that students attending a 4 year private college, complete 3 years of a World Language.

Resources

Computer Science Geometry with Computer Science

 AP Computer Science Principles

AP Computer Science

 Computer Science Advanced Topics

4 Patr	Biotechnology & Medical devices	Health Care	Exercise Science	Education	Public & Human Services
* It is rec Entrepreneurshi Grade 9	Human Anatomy & Medical Terminology	Anthropology Animal Care and Management Human Anatomy & Medical Terminology	Personal Fitness Fitness for Life Human Anatomy Medical Terminology	SpeechUnified PE	
Intro to Busines Personal Finand Speech It is recommended that s	• Personal Fitness • Fitness for Life	Personal Fitness Fitness for Life Veterinary Science	Food Science Weight Training		Law and Justice Fish and Wildlife
Performance Symphonic Band Percussion Ensemble Philharmonic Orchestra Treble Choir Men's Choir Grade Debate Speech Varsity Orchestra Concert Band Varsity Men's Choir Varsity Wemen's Choir Intro to Theater	Weight Training Biotechnology Grade 11	Biotechnology Fish and Wildlife Psychology 1 Psychology 2 Team Sports AP Psychology CIS Human Physiology Chemistry AP Chemistry	Advanced Weight Training	Psychology 1Psychology 2AP Psychology	 Psychology 1 Psychology 2 AP Psychology Sociology
Grade Symphonic Orchestra Varsily Mon's Choir Varsily Women's Choir Belle Chanter Wind Ensemble Grade The Stillwater Choir The Stillwater Concert Ord The Stillwater Concert Win Symphony Music Theory	• 916 Medical Careers • CIS Human Physiology • AP Statistics	Sociology CIS Animal Science 916 Medical Careers 916 Dental Occupations 916 EMT	 CIS Human Anatamoy & Physiology 	 Sociology 916 Careers in Education CIS Exploring the Teaching Profession 	916 Law Enforcement Criminal Justice 916 Cosmetology 916 EMT Photography 1
After Debate School One Act Play Opp. Theatre Con Amici Vagabonds Jazz Band Mock Trial	After School Opp.		Pony Power Rock Climbing Club MSHSL Sports	Senior Council Student Council Prom Planning Mock Trial	Senior Council Student Council Prom Planning Young Democrats Young Republicans Bizaa
Community Partnership St. Croix Valley Ballet		Countryside Photo			Amnesty International Model UN Mock Trial

Our Work to Develop Viable Pathways

Marketing, entrepreneursh ip, business management, administration and finance	Performance arts, fine arts and communications	Engineering, manufacturing, and mechanics	Human Services	Natural Sciences, Health Sciences, and Technology
Animal Care and Management	Foundations of Art	Biotechnology	Biotechnology	Animal care and management
Natural Resources	Clay/Sculpture I & II	Introduction to Business	Photography I & II	Veterinary science
Graphic Design	Graphic Design I & II	Geometry with Computer Science A & B	Personal Finance	Biotechnology
Photography I & II	Drawing I & II	AP Computer Science Principles A & B	CIS Exploring the Teaching Profession I & II	Food Science A & B
Introduction to Video Production	Metals and Jewelry I & II	AP Computer Science A & B	United Physical Education	Floral Design
Advanced Video Production	Painting I & II	Computer Science with Advanced Topics	Human Anatomy and	Plant Science

Adapted from: 2018 ACTE Quality CTE

Program of Study Framework--Business (Business)

The Purpose of this tool is to assess the health and viability of Program of Study identified in the four pathways specific to Stillwater Area Public Schools. Use these descriptions to choose which rating best describes your program of study in relation to each criterion.

0_{= Not present}

 $1_{\text{=}}$ minimally achieved Just beginning, infrequently seen or only with a small group of students

2= moderately achieved Uneven implementation, implemented only in some cases or instances

3= fully achieved All parts of the criterion are visible, implementation is evident

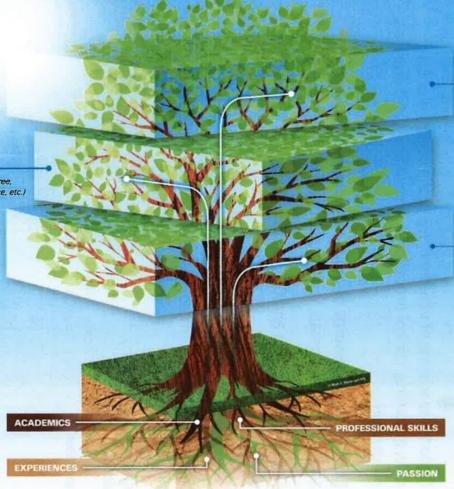
Quality Indicators	0=Not present	1 = Minimally achieved	2= Moderately achieved	3= Fully achieved	
1. Student Career Development					
Comprehensive career development is coordinated and sequenced to promote and support the career decision making and planning of all students			Х		
Students and families are provided accurate and timely information on extended learning experiences available through the POS, such as work based learning, CTE and articulated college credit		Not clear			
Students and families are provided information on further education and training options, including application procedures, enrollment, financial aid, and the projected educational, employment and earning outcomes		Х			
Students are provided with accurate and timely information on regional occupational trends and outlooks related to their POS		Х			



TECHNICAL CAREERS -

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- · Animal Breeder
- Animal Trainer
- Animal Photographer
- Ag Technician
- Animal Care Supervisor
- Horse Farm Manager
- Food Science Technician
- · Certified Vet Technician
- X-Ray Technician
- · Pharmacy Technician
- Research Assistant
- Field Technician



PROFESSIONAL CAREERS

(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- Veterinarian
- Equine Veterinarian
- Veterinarian Specialist
- Animal Nutritionist
- Animal Scientist
- Research and Development
- Merchandise Buyer
- Marine Biologist
- Zoologist
- Agriculture Teacher
- Medical Writer
- Quality Control

ENTRY-LEVEL CAREERS

(with Program Completion)

- Herdsman
- Farm Worker
- Kennel Attendant
- Kennel Manager
- Nenner Mana
 Dog Walker
- Certified Groomer/Stylist
- Retail Sales
- Vet Assistant
- Pet Sitter
- · Manufacturing
- · Show Animal Handler
- · Pet Blogger



Opportunities: Building Relevancy, Community Partnerships

and Academic Achievement

- Mentorships
- Internships or externships
- Partner/career guided project-based learning
- Capstone Experience
- Extracurricular Activities

Ways to offer more flexible scheduling to make time for applied learning:

- Credit by assessment
- Dual credit
- Online courses

Potential Partners:

Lakeview Health - Twin Cities Orthopedic - 3M - Andersen Windows - Zephyr Theater - Story Arc - WOLD Architects - Kraus/Anderson







Questions?