College and Career Readiness Initiatives

Best Practices
• Improved the percentage of recent HS graduates who place into college level math by 21% from 45.8% in 2010 to 67.1% in 2013.
• Algebra 2/3 courses equivalent to Harper’s Math 080 are now taught in all feeder high schools.
• Partnership with Districts 211, 214, 220 shares responsibility for improving college math readiness

College and Career Readiness Alliance Activities with Local Schools
Northwest Education Council for Student Success (NECSS), our regional educational collaborative, implemented the math readiness project and is now undertaking a similar English alignment project.

Early College Options
• 2013-2014 = 2,288 HS students enrolled in 35 dual credit career courses and 17 transfer courses.
• NECSS is planning for the average high school student to earn 15 college credits during high school.

Alternative Pathways in Mathematics – Designed to get students into college-level math faster and more successfully
• Data based, three-tiered program increases the percentage of students placing into college math by testing juniors with COMPASS, expecting four years of HS math, and aligning the high schools Algebra 2/3 courses with Harper’s highest level of developmental math. Algebra 2/3 students who score high enough on the jointly-developed final exam are ready for college math and do not need to retest.
• Dual credit statistics is offered for college ready students who do not want to take the Calculus path.

Career and Technical Education
Dual credit courses are available in 15 career areas. Credit by exam is also offered.

P-12 Career Exploration - such as career fairs, workplace visits, speakers, career materials
• College and Career Expo and campus tours are attended by more than 1,000 elementary and middle school students. Hands-on, interactive activities are customized to the needs of each school. Health Science, Manufacturing, Graphic Arts, Engineering, Early Childhood, Culinary, Fashion and Business Departments host student competitions, student visits, and teacher professional development and curriculum alignment events for area high school teachers and students.
• Expanded secondary and post-secondary student internship opportunities in manufacturing. Paid internships available to students who earn MSSC, now available in high schools.

Participation in Illinois Pathways or STEM Learning Exchanges
Harper is a member of the Manufacturing, Health Science, and Research and Development Exchanges.

Collaboration and Partnerships
NECSS goals include curriculum alignment and transfer articulation, readiness for credit courses, new resources for innovative projects, and career and academic pathways that incorporate industry-relevant and postsecondary credentials which lead to a sustainable income.
Best Practices
- Depth of Knowledge (DOK) alignment in instruction, assessment and 1-to-1 implementation
- Professional Learning Communities
- Critical Learning Standard alignment to new standards and higher levels of depth of knowledge

College and Career Readiness Initiatives
- Professional Certifications: Automotive Service Excellence (ASE), National Automotive Technicians Education Foundation (NATEF), Autodesk, A+ Computer Repair, Microsoft Office Specialist (MOS), Internet and Core Computing (IC3), Food Safety, Certified Nursing Assistant (CNA)
- Project Lead the Way Courses: Introduction to Engineering Design, Principles of Engineering, Digital Electronics, Civil Engineering and Architecture, Computer Integrated Manufacturing, Biotechnical Engineering

Early College Options

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<th>2012-2013 Courses and Options</th>
<th>Conant 211</th>
<th>Fremd 211</th>
<th>Hoffman Estates 211</th>
<th>Palatine 211</th>
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<td>Advanced Placement</td>
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<td>22</td>
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</tr>
<tr>
<td>Dual Credit</td>
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<td>CTE Courses</td>
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<td>Dual Enrollment</td>
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Source: Illinoisreportcard.com, Illinois State Board of Education

Alternative Pathways in Mathematics – Designed to get students into college-level math faster and more successfully
Junior and senior mathematics courses specifically designed to allow students to test into credit bearing college coursework after high school.

Career and Technical Education
- Early Childhood, Workplace, Manufacturing, and Education Internships
- Advanced Manufacturing Program

P-12 Career Awareness and Exploration
- Junior High STEM Summer Workshops (Grades 7-8)
- Girls in Engineering Math and Science Workshop (Grades 5-6)
- Career Speaker Highlights: Ambassador Ian Kelly, Diplomat in Residence for the Midwest from the US Department of State, Forensic Chemist from the Illinois State Crime Lab, Palatine Forensics Police Officer, Forensics Psychologist who from the Illinois Federal Bureau of Prisons
- STEM Speaker Highlights: Geneticist from Lutheran General Hospital, Engineers from Northrup Grumman, Biotechnical Engineer from the Windy City Lab at the VA Hines
- Math in Business Day Speakers: Actuary, Statistician, Certified Public Accountant, Securities Analyst, Investment Banker