D214 2018-2019

Career Pathways

Discover your future.

Buffalo Grove High School | Elk Grove High School | John Hersey High School
Newcomer Center | Prospect High School | Rolling Meadows High School
The Academy at Forest View | Vanguard School | Wheeling High School
Table of Contents

Table of Contents
Helpful Internet Tools for Finding a Career Pathway 2
D214 School Information 4
College Counselors Contact Information 5
Introduction and Definitions 5
Career Pathway Page Sample 6
D214 Career Clusters and Pathways 7
Core Curriculum 12

Agriculture, Food and Natural Resources 14
Environmental Science System 14
Food Products and Processing Systems 15
Plant and Animal Systems 16
Power, Structural and Technical Systems 17
Architecture and Construction 19
Construction 20
Design/Pre-Construction 21
Arts, Audio/Video Technology and Communications 23
Audio/Visual (A/V) Technology and Film 24
Communications 25
Journalism and Broadcasting 26
Performing Arts 27
Performing Arts 27
Printing Technology – Visual Arts 32
Visual Arts 33
Business Management and Administration 35
Business Management and Administration 36
<table>
<thead>
<tr>
<th>Category</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education and Training</td>
<td>37</td>
</tr>
<tr>
<td>Teaching/Training</td>
<td>38</td>
</tr>
<tr>
<td>Early Childhood Education</td>
<td>38</td>
</tr>
<tr>
<td>Primary Education</td>
<td>39</td>
</tr>
<tr>
<td>Secondary Education</td>
<td>40</td>
</tr>
<tr>
<td><strong>Finance</strong></td>
<td>41</td>
</tr>
<tr>
<td>Finance</td>
<td>42</td>
</tr>
<tr>
<td><strong>Government and Public Administration</strong></td>
<td>43</td>
</tr>
<tr>
<td>Foreign Service</td>
<td>44</td>
</tr>
<tr>
<td><strong>Health Science</strong></td>
<td>47</td>
</tr>
<tr>
<td><strong>Hospitality and Tourism</strong></td>
<td>49</td>
</tr>
<tr>
<td>Restaurants and Food/Beverage Services</td>
<td>50</td>
</tr>
<tr>
<td>Culinary Arts</td>
<td>50</td>
</tr>
<tr>
<td><strong>Human Services</strong></td>
<td>51</td>
</tr>
<tr>
<td>Counseling and Mental Health Services</td>
<td>52</td>
</tr>
<tr>
<td>Cosmetology</td>
<td>53</td>
</tr>
<tr>
<td><strong>Personal Care Services</strong></td>
<td>53</td>
</tr>
<tr>
<td>Personal Care Services</td>
<td>54</td>
</tr>
<tr>
<td>Personal Training</td>
<td>54</td>
</tr>
<tr>
<td><strong>Information Technology</strong></td>
<td>55</td>
</tr>
<tr>
<td>Network Systems/Information Support and Services</td>
<td>56</td>
</tr>
<tr>
<td><strong>Law, Public Safety, Corrections and Security</strong></td>
<td>59</td>
</tr>
<tr>
<td>Law Enforcement Services/Corrections Services</td>
<td>60</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>60</td>
</tr>
<tr>
<td>Emergency and Fire Management Services</td>
<td>61</td>
</tr>
<tr>
<td>Emergency and Fire Management Services</td>
<td>61</td>
</tr>
<tr>
<td><strong>Legal Services</strong></td>
<td>62</td>
</tr>
<tr>
<td>Legal Services</td>
<td>62</td>
</tr>
<tr>
<td><strong>Manufacturing</strong></td>
<td>63</td>
</tr>
<tr>
<td>Production</td>
<td>64</td>
</tr>
<tr>
<td>Fashion Construction</td>
<td>64</td>
</tr>
<tr>
<td>Production</td>
<td>65</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>65</td>
</tr>
<tr>
<td><strong>Marketing</strong></td>
<td>67</td>
</tr>
<tr>
<td><strong>Science, Engineering and Mathematics</strong></td>
<td>69</td>
</tr>
<tr>
<td>Engineering and Technology</td>
<td>70</td>
</tr>
<tr>
<td><strong>Science and Mathematics</strong></td>
<td>71</td>
</tr>
<tr>
<td>Science Research and Development</td>
<td>71</td>
</tr>
<tr>
<td>Social Science Research and Development</td>
<td>72</td>
</tr>
<tr>
<td>Mathematics</td>
<td>73</td>
</tr>
<tr>
<td><strong>Transportation, Distribution and Logistics</strong></td>
<td>75</td>
</tr>
<tr>
<td>Facility and Mobile Equipment Maintenance</td>
<td>76</td>
</tr>
<tr>
<td>Automotive Service</td>
<td>76</td>
</tr>
<tr>
<td>Aviation</td>
<td>77</td>
</tr>
<tr>
<td>Heating, Ventilation and Air Conditioning (HVAC)</td>
<td>78</td>
</tr>
</tbody>
</table>
Helpful Internet Tools for Finding a Career Pathway

Career Cruising is an Internet-based career exploration and planning tool used by students to explore career and college options and develop a career plan. Features of the program include: Assessments, Career Profiles, Multimedia Interviews and College/University and Apprenticeship Information.

Career Cruising

Naviance is a college and career readiness platform that helps connect academic achievement to post-secondary goals. It also allows students to create a plan for their futures by helping them discover their individual strengths and learning styles and explore college and career options based on their results.

Naviance

Student can set up their own Career Cruising and Naviance accounts. Please see your counselor or career advisor for more information.
High School District 214
2121 South Goebbert Road
Arlington Heights, IL 60005
847-718-7600 | www.d214.org

Buffalo Grove High School
1100 West Dundee Road
Buffalo Grove, IL 60089
847-718-4000 | bghs.d214.org

Elk Grove High School
500 West Elk Grove Boulevard
Elk Grove Village, IL 60007
847-718-4400 | eghs.d214.org

John Hersey High School
1900 East Thomas Street
Arlington Heights, IL 60004
847-718-4800 | jhhs.d214.org

Newcomer Center
2121 South Goebbert Road
Arlington Heights, IL 60005
847-718-7937 | nc.d214.org

Prospect High School
801 West Kensington Road
Mount Prospect, IL 60056
847-718-5200 | phs.d214.org

Rolling Meadows High School
2901 West Central Road
Rolling Meadows, IL 60008
847-718-5600 | rmhs.d214.org

The Academy at Forest View
2121 South Goebbert Road
Arlington Heights, IL 60005
847-718-7772 | theacademy.d214.org

Vanguard School
2121 South Goebbert Road
Arlington Heights, IL 60005
847-718-7870 | vanguard.d214.org

Wheeling High School
900 South Elmhurst Road
Wheeling, IL 60090
847-718-7000 | whs.d214.org

College Counselors Contact Information

College Counselors

Paul Genovese
Buffalo Grove High School
847-718-4441
paul.genovese@d214.org

Anthony Miocic
Elk Grove High School
847-718-4441
anthony.miocic@d214.org

Nancy Davis
John Hersey High School
847-718-4846
nancy.davis@d214.org

Diane Bourn
Prospect High School
847-718-5279
diane.bourn@d214.org

Kara Fisher
Rolling Meadows High School
847-718-5660
kara.fisher@d214.org

Joanne Amador-Zapata
Wheeling High School
847-718-4045
joanne.amador@d214.org
Introduction and Definitions

District 214 uses the following nationally recognized terms to help guide students through the selection of coursework and to support their decision making in preparation for their post-secondary goals.

Career Cluster: Group of occupations and industries that have a set of foundational knowledge and skills in common. There are 16 nationally recognized career clusters which each contain multiple career pathways.

Career Pathway: Multi-year program of academic and technical study that prepares students for a full range of post-secondary options within each career cluster. Career pathways provide a context for exploring career options at all levels of education. Career pathways link student learning to the knowledge and skills needed for future education and employment.

Program of Study: Sequence of courses and experiences which include core academic, career and technical education content. Programs of study include opportunities to earn college credit and industry-recognized credentials or certificates and gain external career experiences while in high school. Programs of study also may lead to a student earning a college degree.

Within each District 214 Program of Study the following terms are used to describe coursework and opportunities which align with that career area.

Pathway Courses: Recommended sequence of courses which provide students opportunities to explore and develop skills within a specified career area.

Related Electives: Courses which provide students additional opportunities within the specified career area or opportunities to develop skills and knowledge in a closely related career area.

Workplace Learning Experiences: Extended educational opportunities in which students engage in authentic and relevant work aligned with a career pathway. These experiences allow students to participate in a professional work environment and assist with career skill development and decision making. These opportunities may provide varied levels of support, depending upon students' individual needs.

Career Related Activities: Opportunities for student career exploration and/or career skill development which may include the involvement of industry partners. These opportunities are generally less formal and/or intensive than Workplace Learning Experiences in the areas of career exploration and/or career skill development.

Certifications: Credentials awarded to students by an independent third party verifying qualifications or competencies in a career skill area. Industry-recognized certifications are sought or accepted by employers as a recognized, preferred or required credentials for recruitment, screening, hiring, retention or advancement purposes of their employees.

College Majors: College majors are concentrations of educational study focused on a career area. College majors can lead to an associate, bachelor, master, or doctorate degree. In this document, a sample of majors related to each program of study is listed.

Careers: Careers are occupations which usually require special training or formal education. In this document, a sample of careers related to each program of study is listed.
Architecture and Construction

Career Pathway Guide 2018 | 2019
High School District 214

Career Cluster

Construction

Building Trades

Program of Study

Pathway Courses

Year 1
- Woodworking 1
- Woodworking 2

Year 2
- Drafting/CAE
- PLTW Introduction to Engineering Design
- Geometry in Construction

Year 3
- College Practical Architectural Construction – PAC Year 1

Year 4
- College Practical Architectural Construction – PAC Year 2

Career Related Activities

- Athletics
- Architecture Showcase
- District Career Days
- District Career Rights
- District Career Treks
- Robot Rumble
- Skills USA
- WHFEST FIRST Robotics

Workplace Learning Experiences

- Industry Mentors
- Internship
- Micro-Internship
- Practical Architectural Construction

Certifications: High School

- WCA Machine Operation Level I: Table Saw
- WCA Machine Operation Level I: Band Saw
- WCA Machine Operation Level I: Lathe
- WCA Machine Operation Level I: Jointer
- WCA Machine Operation Level I: Radial Arm Saw
- WCA Machine Operation Level I: Planer
- WCA Machine Operation Level I: Drill Press
- WCA Machine Operation Level I: CNC Router

Certifications: Total

- Building Codes and Enforcement
- Commercial Maintenance
- Supervisory Maintenance

College Majors (examples)

- Building/Construction Management
- Constraction Engineering Technology
- Energy Management and Systems Technology
- Heating, Air Conditioning and Refrigeration Technology

College Majors (examples)

- Architectural Engineering Technician
- Building/Construction Finishing, Management and Inspections
- Civil Engineering Technology Technician
- Construction Engineering Technology Technician
- Drafting CAD/CAD
- Electrician
- Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technician
- Carpenter
- Plumber

Careers (examples)

- Building/Construction Finishing, Management and Inspections
- Civil Engineering Technology Technician
- Construction Engineering Technology Technician
- Drafting CAD/CAD
- Electrician
- Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technician
- Carpenter
- Plumber
Finding the best way for students to learn and achieve success is of utmost importance to the State of Illinois and the nation as a whole. College and career success is critical to our national and state economy and has become a national priority.

The Career Clusters and related Career Pathways serve as an organizing tool for schools, small learning communities, academies and magnet schools to develop more effective programs of study and curriculum.

**Essential Knowledge and Skills**
The cluster level knowledge and skills set is built on a common core required for career success in the multiple occupations included in the cluster.

**Career and Technical Education (CTE)** has been central to this call for greater college completion and the credentials that CTE provides to both traditional and nontraditional student populations and has emerged as one of the most important elements in the completion agenda throughout the country.

**The Five CTE Areas**
- Agricultural Education
- Business, Marketing and Computer Education
- Family and Consumer Sciences
- Health Sciences Technology
- Technology and Engineering Education

The National Career Clusters® Framework is comprised of 16 Career Clusters and related Career Pathways to help students explore different career options and better prepare for college and career.

**The Sixteen Career Clusters**
- Agriculture, Food and Natural Resources
- Architecture and Construction
- Arts, Audio/Video Technology and Communications
- Business Management and Administration
- Education and Training
- Finance
- Government and Public Administration
- Health Science
- Hospitality and Tourism
- Human Services
- Information Technology
- Law Enforcement Services/Corrections Services
- Manufacturing
- Marketing
- Science, Technology, Engineering and Mathematics
- Transportation, Distribution and Logistics
### Agricultural Education

**Agriculture, Food and Natural Resources**
- Environmental Science Systems
- Food Products and Processing Systems
- Plant and Animal Systems
- Power, Structural and Technical Systems

**Business, Marketing and Computer Education**

**Business Management and Administration**
- Business Management and Administration

**Finance**
- Finance

**Government and Public Administration**
- Foreign Service
- Governance, Public Management and Administration

**Marketing**
- Marketing

**Family and Consumer Sciences**

**Education and Training**
- Teaching/Training: Early Childhood Education
- Teaching/Training: Primary Education
- Teaching/Training: Secondary Education

**Hospitality and Tourism**
- Restaurants and Food/Beverage Services: Culinary Arts

**Human Services**
- Counseling and Mental Health Services
- Personal Care Services: Cosmetology
- Personal Care Services: Personal Training

**Health Sciences Technology**

**Health Science**
- Health Science

### Technology and Engineering Education

**Architecture and Construction**
- Construction: Building Trades
- Design/Pre-Construction: Architecture

**Arts, Audio/Video Technology and Communications**
- Audio/Video Technology and Film
- Communications: Writer/Author/Editor
- Journalism and Broadcasting
- Performing Arts: Acting and Technical Theater
- Performing Arts: Band
- Performing Arts: Choir
- Performing Arts: Dance
- Performing Arts: Orchestra
- Printing Technology/Visual Arts: Graphic Arts
- Visual Arts: Art (2-D Painting and Drawing/3-D Jewelry and Sculpture)
- Visual Arts: Photography

**Information Technology**
- Network Systems/Information Support and Services
- Programming and Software Development

**Law, Public Safety, Corrections and Security**
- Criminal Justice
- Emergency and Fire Management Services
- Legal Services

**Manufacturing**
- Production: Fashion Construction
- Production: Manufacturing

**Science, Technology, Engineering and Mathematics**
- Engineering and Technology: Engineering
- Science and Mathematics: Science Research and Development
- Science and Mathematics: Social Science Research and Development
- Science and Mathematics: Mathematics

**Transportation, Distribution and Logistics**
- Facility and Mobile Equipment Maintenance: Automotive Service
- Facility and Mobile Equipment Maintenance: Aviation
- Facility and Mobile Equipment Maintenance: Heating, Ventilation and Air Conditioning (HVAC)
Preparing the Next Generation of Instructional Leaders

Educator Prep is set of sequence of courses and experiences developed in cooperation with community partners across primary, secondary and postsecondary education. High school student experiences in Educator Prep start as early as their freshmen year and can span the whole way until college graduation and employment as a teacher in a primary or secondary school.

Integration with High School Pathways:
Exploring a Career in Education
Educator Prep begins with a sequence of high school courses directed towards providing students with an orientation to the career of education, opportunities to develop skills and knowledge required to be an educator, authentic opportunities to observe and teach in a variety of classroom environments, and opportunities to gain up to several hours of early college credit in courses related to education. Supporting students from high school through college to career, students continuing in Educator Prep with a post-secondary partner will have the opportunity to gain a bachelor’s degree and teaching certification related to their career area of interest. Students will also receive continued professional support from and develop relationships with the program’s primary and secondary partners through clinicals, observations, and professional development activities hosted at the primary and secondary sites in addition to partner involvement within coursework at their postsecondary institution.

Returning to Our Communities to Teach
Students continuing the Educator Prep program at the post-secondary level will be guaranteed a student teaching placement in District 214 or one of its local elementary partners. Upon successful completion of student teaching, students will be guaranteed employment interviews with the primary and secondary partners if openings exist.

PROGRAM PARTNERS

High School District 214
High School District 214 developed the Educator Prep program and provides coordination of all program partners and opportunities. District 214 delivers the initial education pathway curriculum and coordinates the pre-service internships for all students in grades 9 through 12. The District has committed to hosting pre-service interns and to providing ongoing support and professional development opportunities for participants at both the high school and college portions of the program. District 214 guarantees student teaching placements and employment interviews (if positions exist) for all students who successfully complete the program with teacher certification in secondary education.

District 214 has created documentation related to its 44 existing career programs of study across all 16 nationally-recognized coursework, documenting its sequence of coursework, career related activities, external experiences, certifications, and post-secondary options for students to pursue. The District currently has programs of study in three areas related to education: Early Childhood Education, Elementary Education, and Secondary Education.
America’s high schools have a profound responsibility to ensure that our nation’s students are college ready, career ready and life ready. Standardized test scores – traditionally used as the primary readiness indicator – do not always provide an accurate representation of our students’ potential. Today’s students are driven by ideas and innovations. They should not be reduced down to, or defined by, a single test score.

Our students are MORE than a SCORE.

Redefining Ready! is a national campaign launched by AASA – The School Superintendents Association, to introduce a new multi-metric, research based approach to determining what it means to be college ready, career ready, and life ready.

Our nation’s teachers and school leaders provide students with rigorous academic programs, personalized and career-specific learning experiences, along with social and emotional skills that prepare them to be global citizens in an ever-changing world.

Students learn in a variety of ways. Therefore, they should be able to demonstrate readiness in a variety of ways. The new readiness indicators, developed from research by world-class organizations, more accurately reflect the educational landscape of the 21st century. Multiple metrics include Advanced Placement and International Baccalaureate courses, Algebra II, early college credits, industry credentials, attendance, and community service, among others.

To view the new readiness indicators, the research source documents and add your support for the campaign, we encourage you to visit the the Redefining Ready! website www.RedefiningReady.org.

Share your stories on social media using the hashtag #RedefiningReady.
### Core Curriculum

#### English

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Honors Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Written and Oral Communication</td>
<td>Honors Written and Oral Communication</td>
</tr>
<tr>
<td>2</td>
<td>World Literature and Composition</td>
<td>Honors World Literature and Composition</td>
</tr>
<tr>
<td>3</td>
<td>American Literature and Composition</td>
<td>AP English Language and Composition</td>
</tr>
<tr>
<td>4</td>
<td>AP English Literature and Composition</td>
<td>English 100 College Composition/College Speech</td>
</tr>
</tbody>
</table>

#### Math

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Honors Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Algebra</td>
<td>Honors Geometry</td>
</tr>
<tr>
<td>2</td>
<td>Geometry</td>
<td>Honors Algebra II</td>
</tr>
<tr>
<td>3</td>
<td>Intermediate Algebra/Algebra II</td>
<td>Algebra II Honors Pre-Calculus</td>
</tr>
<tr>
<td>4</td>
<td>Algebra II/Math Analysis</td>
<td>Trigonometry/College Algebra</td>
</tr>
<tr>
<td></td>
<td></td>
<td>College Math: A Human Endeaver/College Statistics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AP Statistics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Calculus AB/BC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>College Calculus 3/Differential Equations</td>
</tr>
</tbody>
</table>

#### Science

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Honors Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Biology</td>
<td>Honors Biology</td>
</tr>
<tr>
<td>2</td>
<td>Chemistry</td>
<td>Honors Chemistry</td>
</tr>
<tr>
<td>3</td>
<td>Physics</td>
<td>AP Physics I</td>
</tr>
<tr>
<td>4</td>
<td>AP Science Elective</td>
<td>College Physical Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Science Elective</td>
</tr>
</tbody>
</table>

#### Social Science

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Honors Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Human Geography</td>
<td>AP Human Geography</td>
</tr>
<tr>
<td>2</td>
<td>World History</td>
<td>AP World History</td>
</tr>
<tr>
<td>3</td>
<td>U.S. History</td>
<td>AP U.S. History</td>
</tr>
<tr>
<td>4</td>
<td>AP Social Science Electives</td>
<td>Social Science Electives</td>
</tr>
</tbody>
</table>
Agriculture, Food and Natural Resources

The production, processing, marketing, distribution, financing and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture and other plant and animal products/resources.

D214 Pathways/Programs of Study
- Environmental Science Systems
- Food Products and Processing Systems
- Plant and Animal Systems
- Power, Structural and Technical Systems
## Environmental Science System

### Pathway Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Biology</td>
</tr>
<tr>
<td>Year 2</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Year 3</td>
<td>Physics</td>
</tr>
<tr>
<td>Year 4</td>
<td>AP Environmental Science</td>
</tr>
</tbody>
</table>

### Related Electives
- AP Statistics
- College Entrepreneurship
- College Speech Communication

### Career Related Activities
- Athletics
- Bass Fishing Club
- District Career Days
- District Career Nights
- District Career Treks
- Environmental Club
- Future Farmers of America

### Workplace Learning Experiences
- Entrepreneurship
- Industry Mentorship
- Internship
- Microinternship

### College Majors (examples)
- Environmental Control Technologies/Technicians
- Environmental Engineering Technology/Environmental Technology
- Hazardous Materials Management
- Water Quality and Wastewater Treatment Management and Recycling Technology/Technician

### Careers (examples)
- Environmental Engineering Technician
- Hazardous Materials Removal Worker
- Occupational Health and Safety Specialist
- Refrigeration Mechanic and Installer
- Water and Wastewater Treatment Plant and System Operator
# Food Products and Processing Systems

## Pathway Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Foods 1</td>
</tr>
<tr>
<td></td>
<td>Foods 2</td>
</tr>
<tr>
<td>Year 2</td>
<td>College Culinary Arts/ProStart 1</td>
</tr>
<tr>
<td>Year 3</td>
<td>College Culinary Arts/ProStart 2</td>
</tr>
<tr>
<td>Year 4</td>
<td>AP Chemistry</td>
</tr>
<tr>
<td></td>
<td>AP Biology</td>
</tr>
</tbody>
</table>

## Related Electives

- AP Statistics
- College Entrepreneurship
- College Speech Communication
- Environmental Science

## Career Related Activities

- Athletics
- Bass Fishing Club
- District Career Days
- District Career Nights
- District Career Treks
- Environmental Club
- Future Farmers of America
- Skills USA

## Workplace Learning Experiences

- Entrepreneurship
- Industry Mentorship
- Internship
- Microinternship
- ProStart

## Certifications: High School

- Food Handler
- National Restaurant Association ProStart Certificate of Achievement

## College Majors (examples)

- Agricultural and Food Products Processing
- Agricultural Business and Management
- Agricultural Business Technology
- Agricultural/Farm Supplies Retailing and Wholesaling
- Food Science
- Food Technology and Processing

## Careers (examples)

- Agricultural and Food Science Technician
- Agricultural Technician
- Chemical Technician
- Farm and Ranch Manager
- Food Science Technicians or Technologist
- Pest Control Worker
Agriculture, Food and Natural Resources

Plant and Animal Systems

Pathway Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Biology</td>
</tr>
<tr>
<td>Year 2</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Year 3</td>
<td>Physics</td>
</tr>
<tr>
<td>Year 4</td>
<td>AP Environmental Science</td>
</tr>
</tbody>
</table>

Related Electives

- AP Biology
- AP Chemistry
- AP Statistics
- College Entrepreneurship
- College Speech Communication
- Zoology

Career Related Activities

- Athletics
- Bass Fishing Club
- District Career Days
- District Career Nights
- District Career Treks
- Environmental Club
- Future Farmers of America

Workplace Learning Experiences

- Entrepreneurship
- Industry Mentorship
- Internship
- Microinternship

Certifications: Harper

- Veterinary Assistant

College Majors (examples)

- Agricultural and Domestic Animal Services
- Agricultural Animal Breeding
- Animal Health and Nutrition
- Animal Sciences
- Animal Training
- Dairy Science
- Dog/Pet/Animal Grooming
- Equestrian/Equine Studies
- Livestock Management
- Poultry Science

Careers (examples)

- Agricultural and Food Science Technician
- Agricultural Technician
- Animal Breeder
- Animal Caretaker
- Animal Scientist
- Animal Trainer
- Aquacultural Manager
- Farmworker: Farm, Ranch and Aquacultural Animals
- Farming, Fishing and Forestry Worker
- Food Science Technician
- Veterinarian/Veterinarian Technician
Power, Structural and Technical Systems

Pathway Courses

Year 1  • PLTW Introduction to Engineering Design

Year 2  • PLTW Civil Engineering and Architecture

Year 3  • AP Physics
        • AP Chemistry

Related Electives

• AP Calculus
• AP Statistics
• College Entrepreneurship
• College Speech Communication

Career Related Activities

• Athletics
• Bass Fishing Club
• District Career Days
• District Career Nights
• District Career Treks
• Environmental Club
• Future Farmers of America
• Skills USA

Workplace Learning Experiences

• Entrepreneurship
• Industry Mentorship
• Internship
• Microinternship

Certifications: Harper

• Alternative Electrical Energy

College Majors (examples)

• Agricultural Mechanics and Equipment/
  Machine Technology
• Agricultural Mechanization
• Agricultural Power Machinery Operation

Careers (examples)

• Agricultural Engineer
• Agricultural Equipment Operator
• Farm Equipment Mechanics and
  Service Technician
• Mobile Heavy Equipment Mechanic
• Recycling Technician
• Remote Sensing Technician
District Level Career Courses, Programs and Opportunities

The following District-level courses are available to students at all schools:

**Aviation Academy**
This program is available to students who have committed to pursuing a career in aviation. Students attend classes off-site where they learn the fundamentals of flight on a real airplane and begin their process towards certifications in the aviation field.

**College Education Academy**
This program is available to students who have committed to a career in education. Students learn educational fundamentals in class two days per week and practice curriculum-based activities in a classroom setting at local schools three days per week.

**College Practical Architectural Construction (PAC)**
This program is available to students who have committed to pursuing a career in construction and building trades. Students are provided with on-site work experience as they build a single family residence. Students experience every stage of the home building process and learn to utilize the tools of carpentry and related trades.

**Medical Science Academy**
This program is available to students who have committed to pursuing a career in the field of medicine. Students participate in dual credit coursework related to healthcare. They have workplace learning experiences at community healthcare sites where they complete projects and research related to health careers.

**Naval Science/NJROTC**
Navy Junior Reserve Officers Training Corps (NJROTC) is a course in leadership, teamwork and citizenship, using studies about the Navy as a common core. Students are not members of the military and there is no military obligation. NJROTC seeks to help develop more informed and responsible citizens, develop young leaders, maximize student opportunities and prepare them for future success.

**WildStang FIRST Robotics**
This program is available to students who have committed to pursuing a career related to robotics and engineering. Students work with industry mentors to develop knowledge and skills related to robotics and participate in a variety of robotics competitions throughout the year. This program meets after normal school hours.
Architecture and Construction

Designing, planning, managing, building and maintaining the built environment.

D214 Pathways/Programs of Study
- Construction: Building Trades
- Design/Pre-Construction: Architecture
Architecture and Construction

Construction

Building Trades

Pathway Courses

Year 1
- Woodworking 1
- Woodworking 2

Year 2
- Drafting/CAD
- PLTW Introduction to Engineering Design
- Geometry in Construction

Year 3
- College Practical Architectural Construction – PAC Year 1

Year 4
- College Practical Architectural Construction – PAC Year 2

Related Electives

- College Entrepreneurship
- College Speech Communication
- Introduction to Business
- Small Business Management

Career Related Activities

- Athletics
- Architecture Showcase
- District Career Days
- District Career Nights
- District Career Treks
- Robot Rumble
- Skills USA
- WildStang FIRST Robotics

Workplace Learning Experiences

- Apprenticeship
- Entrepreneurship
- Industry Mentorship
- Internship
- Microinternship
- Practical Architectural Construction
- Small Business Management

Certifications: High School

- WCA Machine Operation Level I: Table Saw
- WCA Machine Operation Level I: Band Saw
- WCA Machine Operation Level I: Lathe
- WCA Machine Operation Level I: Jointer
- WCA Machine Operation Level I: Radial Arm Saw
- WCA Machine Operation Level I: Planer
- WCA Machine Operation Level I: Drill Press
- WCA Machine Operation Level I: CNC Router

Certifications: Harper

- Building Codes and Enforcement
- Commercial Maintenance
- Supervisory Maintenance

College Majors (examples)

- Building/Construction Management
- Construction Engineering Technology
- Energy Management and Systems Technology
- Heating, Air Conditioning and Refrigeration Technology

Careers (examples)

- Architectural Engineering Technician
- Building/Construction Finishing, Management and Inspection
- Civil Engineering Technology/Technician
- Construction Engineering Technology/Technician
- Drafting CAD/CADD
- Electrician
- Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technician
- Carpenter
- Plumber
# Design/Pre-Construction

## Architecture

### Pathway Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>Course Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>PLTW Industrial Engineering Design</td>
</tr>
<tr>
<td>Year 2</td>
<td>PLTW Civil Engineering and Architecture&lt;br&gt;Geometry in Construction</td>
</tr>
<tr>
<td>Year 3</td>
<td>PLTW Principles of Engineering Design</td>
</tr>
</tbody>
</table>

### Related Electives

- AP Art History
- Art 1
- Calculus
- College Entrepreneurship
- College Speech Communication
- Graphic Art Design

### Career Related Activities

- Athletics
- Architecture Showcase
- District Career Days
- District Career Nights
- District Career Treks
- Robot Rumble
- Skills USA
- WildStang FIRST Robotics

### Workplace Learning Experiences

- Entrepreneurship
- Industry Mentorship
- Internship
- Microinternship

### Certifications: Harper

- AutoCAD Designer
- Revit Architectural Designer

### College Majors (examples)

- Architectural Drafting
- Architectural Engineering
- Architecture
- CAD/CADD Drafting Technician
- Civil Drafting and Civil Engineering
- Drafting/Design Engineering Technicians
- Electrical/Electronics Drafting
- Electrical/Electronics CAD/CADD
- Environmental Design/Architecture
- Mechanical Drafting CAD/CADD

### Careers (examples)

- Architects
- Civil Draftsman
- Civil Engineering Technician
- Electrical and Electronics Draftsman
- Engineering Technician
- Interior Designer
- Landscape Architect
- Mechanical Draftsman
- Operations Research Analyst
44 career pathways students can choose from in District 214

95% District 214 students identify a career area of interest by graduation
Arts, A/V Technology and Communications

Designing, producing, exhibiting, performing, writing and publishing multimedia content including visual and performing arts and design, journalism and entertainment services.

D214 Pathways/Programs of Study
- Audio/Visual (A/V) Technology and Film
- Communications: Writer/Author/Editor
- Journalism and Broadcasting
- Performing Arts: Acting and Technical Theater
- Performing Arts: Band
- Performing Arts: Choir
- Performing Arts: Dance
- Performing Arts: Orchestra
- Printing Technology/Visual Arts: Graphic Arts
- Visual Arts: Art (2-D Painting and Drawing/3-D Jewelry and Sculpture)
- Visual Arts: Photography
# Arts, Audio/Video Technology and Communications

## Audio/Visual (A/V) Technology and Film

### Pathway Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>Courses</th>
</tr>
</thead>
</table>
| Year 1 | Media Technology 1  
         | Media Technology 2 |
| Year 2 | Media Technology 3  
         | Media Technology 4 |
| Year 3 | Production and Editing I  
         | College Production I |
| Year 4 | Production and Editing II  
         | College Production II* |

### Related Electives
- College Speech Communication
- Creative Writing
- Graphic Arts Design
- Media Analysis

### Career Related Activities
- Art Club
- Art Gallery
- Arts Unlimited
- Athletics
- District Art Show
- District Career Days
- District Career Nights
- District Career Treks
- Harper Art Show
- Theater Set Design
- Theater Tech Crew
- Visual Arts Day

### Workplace Learning Experiences
- Industry Mentorship
- Internship
- Microinternship
- Studio214

### Certificates: Harper
- Sound Recording

### College Majors (examples)
- Art History, Criticism and Conservation
- Audiovisual Communications Technologies/Technicians
- Computer Graphics
- Design and Visual Communications, General
- Drawing
- Film/Video and Photographic Arts
- Fine/Studio Arts, General
- Intermedia/Multimedia
- Museology/Museum Studies
- Photography

### Careers (examples)
- Archivist
- Art, Drama and Music Teacher
- Broadcast Technician
- Camera Operator
- Commercial and Industrial Designer
- Curator
- Film and Video Editor
- Media and Communication Equipment Worker
- Multimedia Artists and Animator
- Set and Exhibit Designer
- Technical Director/Manager

*Pending Board and Dual Credit Approval*
Communications

Writer/Author/Editor

Pathway Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Written and Oral Communication</td>
</tr>
<tr>
<td>Year 2</td>
<td>World Literature and Composition</td>
</tr>
<tr>
<td>Year 3</td>
<td>American Literature and Composition</td>
</tr>
<tr>
<td>Year 4</td>
<td>English Literature and Composition</td>
</tr>
<tr>
<td></td>
<td>College Composition</td>
</tr>
</tbody>
</table>

Related Electives

- College Speech Communication
- Creative Writing
- Journalistic Writing
- Media Technology
- World Language
- Yearbook

Career Related Activities

- Athletics
- District Career Days
- District Career Nights
- District Career Treks
- Poetry/Writing Groups
- School Newspaper
- Speech Team
- Yearbook

Workplace Learning Experiences

- Industry Mentorship
- Internship
- Microinternship

Certificates: Harper

- Media Writing and Design
- Online Communications

College Majors (examples)

- English
- Creative Writing
- Communications
- Professional Writing
- Linguistics

Careers (examples)

- Copywriter
- Blogger
- Author/Novelist
- Songwriter
- Playwriter
- Editor/Proofreader
- Technical Writer
- Grant Writer
- Speech Writer
- Translator
Arts, Audio/Video Technology and Communications

Journalism and Broadcasting

Journalism and Broadcasting

Pathway Courses

Year 1
- Journalistic Writing 1 / 2
- Media Technology 1

Year 2
- Journalistic Writing 3 / 4
- Media Technology 2

Year 3
- Journalistic Writing 5 / 6
- Media Technology 3

Year 4
- Journalistic Writing 7 / 8
- Media Technology 4
- Production and Editing I
- College Production I

Related Electives

- Acting
- College Speech Communication
- Creative Writing
- Graphic Arts Design
- Media Analysis
- Photography
- Yearbook

Career Related Activities

- Athletics
- District Career Days
- District Career Nights
- District Career Treks
- Poetry/Writing Groups
- School Newspaper
- Speech Team
- Yearbook

Workplace Learning Experiences

- Industry Mentorship
- Internship
- Microinternship
- Studio214

Certificates: Harper

- Media Writing and Design
- Online Communications

College Majors (examples)

- Broadcast Journalism
- Communication Studies/Speech Communication and Rhetoric
- Digital Communication and Media/Multimedia
- Journalism
- Mass Communication/Media Studies
- Photojournalism
- Radio and Television Broadcasting Technician
- Recording Arts Technician

Careers (examples)

- Audio and Video Equipment Technician
- Broadcast News Analyst
- Broadcast Technician
- Camera Operator
- Film and Video Editor
- Media and Communication Worker
- Producer and Director
- Public Relations Specialist
- Radio and Television Announcer
- Reporters and Correspondent
- Sound Engineering Technician
- Writer
Performing Arts

Acting and Technical Theater

Pathway Courses

| Year 1 | Acting 1 / 2 or Tech Theater/Woodworking 1 |
| Year 2 | Acting 3 / 4 or Tech Theater/Woodworking 2 |
| Year 3 | Advanced Theater Workshop |
| Year 4 | Advanced Theater Workshop |

Related Electives

- Art 1
- College Entrepreneurship
- College Fashion Construction
- College Introduction to Education
- College Speech Communication
- Dance
- Fashion Design
- Fine Arts Workshop
- Teacher Internship
- Vocal Music

Career Related Activities

- Assistant Directing
- Athletics
- Costume Crew
- Creative Writing Day
- District Career Days
- District Career Nights
- District Career Treks
- District Improv Teams
- District/School One-Acts (Director, Performer, or Designer)
- District Summer Musical (Tech and Performance)
- Drama Day
- Illinois High School Theater Festival
- Musical Productions
- Play Productions
- Poetry/Writing Groups
- Speech Team
- Stage Managing Productions
- Tech Building Crew
- Tech Running Crew
- Tech Workshops
- School Newspaper
- Speech Team
- Variety Show (Performer, Tech, or Student Director)
- Visual Arts Day

Workplace Learning Experiences

- Entrepreneurship
- Industry Mentorship
- Internship
- Microinternship
- Teacher Internship

College Majors (examples)

- Acting
- Musical Theater
- Speech Communication
- Theater
- Theater Design
- Theater Directing
- Theater Education
- Technical Theater

Careers (examples)

- Artistic Director
- Arts Administrator
- Costumer/Costume Designer
- Director
- Lighting Designer
- Set Designer
- Sound Engineer
- Stage Manager
- Stage Performer
- Tech Education
- Technician
- Theater Teacher
# Performing Arts

## Band

### Pathway Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Concert/Symphonic Band, Jazz Band</td>
</tr>
<tr>
<td>Year 2</td>
<td>Concert/Symphonic Band, Jazz Band,</td>
</tr>
<tr>
<td></td>
<td>Harmony and Arranging 1</td>
</tr>
<tr>
<td>Year 3</td>
<td>Concert/Symphonic Band, Jazz Band,</td>
</tr>
<tr>
<td></td>
<td>Harmony and Arranging 2</td>
</tr>
<tr>
<td>Year 4</td>
<td>Concert/Symphonic Band, Jazz Band, AP Music</td>
</tr>
<tr>
<td></td>
<td>Theory</td>
</tr>
</tbody>
</table>

### Related Electives

- College Entrepreneurship
- College Introduction to Education
- College Speech Communication
- Fine Arts Workshop
- Guitar
- Instrumental Ensemble
- Orchestra Winds and Percussion
- Teacher Internship
- Vocal Music

### Career Related Activities

- Athletics
- Color Guard
- Community Honor Ensembles (SYSO, CYSO, MYA, etc.)
- Conducting, Directing, Composing
- Contests and Festivals
- District Career Days
- District Career Nights
- District Career Treks
- District Honors Orchestra
- District 214 Honors Band
- Illinois Music Educators Association District/State
- Festival Soloist
- Future Music Educators
- Jazz Combo
- Marching Band
- Pep Band
- Pit Orchestra
- Private Lessons
- Show Choir Combo
- Small Ensembles
- Summer Music Camps
- Tri-M, Solo and Ensemble
- Variety Show

### Workplace Learning Experiences

- Entrepreneurship
- Industry Mentorship
- Internship
- Microinternship
- Teacher Internship

### College Majors (examples)

- Conducting
- Instrumental Performance
- Jazz
- Music
- Music Composition
- Music Education
- Music Therapy
- Music Theory

### Careers (examples)

- Composer
- Conductor
- Musician
- Music Instructor
- Music Management
- Performer
- Performing Arts Educator
- Sound Designer
Performing Arts

Choir

Pathway Courses

Year 1  -  Beginning Mixed Choir/Treble Choir/ Advanced Mixed Choir

Year 2  -  Beginning Mixed Choir/Treble Choir/ Advanced Mixed Choir
          -  Harmony and Arranging 1

Year 3  -  Beginning Mixed Choir/Treble Choir/ Advanced Mixed Choir
          -  Harmony and Arranging 2

Year 4  -  Beginning Mixed Choir/Treble Choir/ Advanced Mixed Choir
          -  AP Music Theory

Related Electives

- Acting
- College Entrepreneurship
- College Introduction to Education
- College Speech Communication
- Concert/Symphonic Band
- Dance
- Fine Arts Workshop
- Guitar
- Jazz Band
- Orchesis
- Teacher Internship
- Vocal Ensemble

Career Related Activities

- Athletics
- Conducting, Directing, Composing
- Contests and Festivals
- District Career Days
- District Career Nights
- District Career Treks
- District 214 Honors Choir
- Extracurricular Choirs
- Illinois Music Educators Association
- District/State
- Festival Soloist
- Future Music Educators
- Jazz Band Vocalist
- Musical Theater
- Private Lessons
- Small Ensembles
- Summer Music Camps
- Tri-M, Solo and Ensemble
- Variety Show

Workplace Learning Experiences

- Entrepreneurship
- Industry Mentorship
- Internship
- Microinternship
- Teacher Internship

College Majors (examples)

- Conducting
- Instrumental Performance
- Jazz
- Music
- Music Composition
- Music Education
- Music Therapy
- Music Theory

Careers (examples)

- Composer
- Conductor
- Musician
- Music Instructor
- Music Management
- Performer
- Performing Arts Educator
- Sound Designer
Performing Arts

Dance

Pathway Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Orchesis or Dance 1</td>
</tr>
<tr>
<td>2</td>
<td>Orchesis or Dance 2</td>
</tr>
<tr>
<td>3</td>
<td>Orchesis or Dance 3</td>
</tr>
<tr>
<td>4</td>
<td>Orchesis</td>
</tr>
</tbody>
</table>

Related Electives

- Acting
- College Entrepreneurship
- College Introduction to Education
- College Speech Communication
- Fashion Design
- Fashion Construction
- Fine Arts Workshop
- Teacher Internship
- Vocal Music

Career Related Activities

- Athletics
- Children’s Workshop
- District Career Days
- District Career Nights
- District Career Treks
- District 214 Honors Dance Concert
- District/School Musicals
- Illinois State Theater Festival
- National Honor Society of Dance Arts
- National/State HS Dance Festival
- Orchesis
- Production of Informal and Full Length Concert
- Show Choir
- Student Choreography
- Variety Show

Workplace Learning Experiences

- Entrepreneurship
- Guest Choreographers and Master Classes
- Industry Mentorship
- Internship
- Microinternship
- Teacher Internship

College Majors (examples)

- Dance
- Dance Education

Careers (examples)

- Arts Administrator
- Choreographer
- Company Director
- Dance Educator
- Dance Performer
- Dance Therapist
- Director and Coach
- Production Manager: Digital, Video and Stage
- Studio Owner
Performing Arts

Orchestra

Pathway Courses

| Year 1 | Orchestra/Concert Orchestra or Beginning Strings |
| Year 2 | Orchestra/Concert Orchestra or Beginning Strings, Harmony and Arranging 1 |
| Year 3 | Orchestra/Concert Orchestra or Beginning Strings, Harmony and Arranging 2 |
| Year 4 | Orchestra/Concert Orchestra or Beginning Strings, AP Music Theory |

Related Electives

- College Entrepreneurship
- College Introduction to Education
- College Speech Communication
- Concert/Symphonic Band
- Guitar
- Instrumental Ensemble
- Jazz Band
- Fine Arts Workshop
- String Ensemble
- Teacher Internship
- Vocal Music

Career Related Activities

- Athletics
- Community Honor Ensembles (SYSO, CYSO, MYA, etc)
- Conducting, Directing, Composing
- Contests and Festivals
- District 214 Honors Band
- District Career Days
- District Career Nights
- District Career Treks
- District 214 Honors Orchestra
- Illinois Music Educators Association District/State
- Festival Soloist
- Future Music Educators
- Jazz Combo
- Marching Band
- Pep Band
- Pit Orchestra
- Private Lessons
- Show Choir Combo
- Small Ensembles
- Summer Music Camps
- Tri-M, Solo and Ensemble
- Variety Show

Workplace Learning Experiences

- Entrepreneurship
- Industry Mentorship
- Internship
- Microinternship
- Teacher Internship

College Majors (examples)

- Conducting
- Instrumental Performance
- Jazz
- Music
- Music Composition
- Music Education
- Music Theory
- Music Therapy

Careers (examples)

- Composer
- Conductor
- Musician
- Music Instructor
- Music Management
- Performer
- Performing Arts Educator
- Sound Designer
Arts, Audio/Video Technology and Communications

Printing Technology – Visual Arts

Graphic Arts

Pathway Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Graphic Art Design</td>
</tr>
<tr>
<td>Year 2</td>
<td>College Advanced Graphic Arts</td>
</tr>
<tr>
<td>Year 3</td>
<td>AP Studio Art 2-D</td>
</tr>
</tbody>
</table>

Related Electives

- Advanced 2-D Art Studio
- Advanced Photo Studio
- Art 1
- Art Imaging
- College Entrepreneurship
- College Introduction to Education
- College Speech Communication
- Computer Programming, Mobile App and Networking
- Journalistic Writing
- Photography
- Small Business Management
- Teacher Internship
- Yearbook

Career Related Activities

- Art Club
- Art Gallery
- Athletics
- Graphic Arts Club
- Harper Graphic Communication Show
- District Graphic Arts Competition
- District Art Show
- Harper Art Show
- Visual Arts Day
- District Career Nights
- District Career Days
- District Career Treks

Workplace Learning Experiences

- Entrepreneurship
- Industry Mentorship
- Microinternship
- Internship
- Small Business Management
- Teacher Internship

Certificates: Harper

- Graphic Arts Desktop Publishing
- Graphic Arts
- Graphic Arts Design
- Graphic Arts Web Design
- Graphic Arts Package Design
- Graphic Arts Interactive Technology
- Graphic Arts Variable Data

College Majors (examples)

- Advertising Art Direction
- Art Education
- Fine Arts
- Graphic Communication
- Graphic Design
- Publication Design
- Technical Education
- Web Design

Careers (examples)

- Art Director
- Artist
- Photographer: Digital, Still, Video, Film
- Computer Animator
- Curator and Gallery Manager
- Desktop Publishing Specialist
- Graphic Designer
- Graphics Equipment Operator
- Illustrator
- Printing Equipment Operator
- Web Page Designer
Visual Arts

Art (2-D Painting and Drawing; 3-D Jewelry and Sculpture)

Pathway Courses

| Year 1 | Art 1  
|       | Introduction to 3-D Art |
| Year 2 | 2-D Art Courses or  
|        | 3-D Art Courses |
| Year 3 | Advanced 2-D Art or  
|        | Advanced 3-D Art |
| Year 4 | AP Studio Art 2-D Design or  
|        | AP Studio Art 3-D Design |

Related Electives

- AP Art History
- Art Imaging
- College Advanced Graphic Arts
- College Entrepreneurship
- College Introduction to Education
- College Speech Communication
- Fashion Design
- Fashion Construction
- Graphic Arts Design
- Graphic Arts Technology
- Photography
- Small Business Management
- Teacher Internship

Career Related Activities

- Art Club
- Art Gallery
- Arts Unlimited
- Athletics
- District Art Show
- District Career Days
- District Career Nights
- District Career Treks
- Harper Art Show
- Theater Set Design
- Visual Arts Day

Workplace Learning Experiences

- Entrepreneurship
- Industry Mentorship
- Microinternship
- Internship
- Small Business Management
- Teacher Internship

College Majors (examples)

- Advertising Art Direction
- Arts Administration
- Art Education
- Art History
- Fine Arts
- Illustration
- Interior Design
- Visual Arts

Careers (examples)

- Art Director
- Art Teacher
- Art Therapist
- Commercial Artist, Illustrator and Artist
- Photographer: Digital, Still, Video, Film
- Curator and Gallery Manager
- Fashion Designer
- Fashion Illustrator
- Interior Designer: Commercial/Residential
- Furnishings Coordinator
- Jewelry Designer
- Textile Designer
## Visual Arts

### Photography

**Pathway Courses**

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Photography 1</td>
</tr>
<tr>
<td></td>
<td>Photography 2</td>
</tr>
<tr>
<td>Year 2</td>
<td>Photography 3</td>
</tr>
<tr>
<td></td>
<td>Advanced Photography Studio</td>
</tr>
<tr>
<td>Year 3</td>
<td>Advanced Photography Studio</td>
</tr>
<tr>
<td>Year 4</td>
<td>AP Studio Art 2-D Design</td>
</tr>
</tbody>
</table>

**Related Electives**

- Advanced 2-D Art Studio
- Advanced Imaging
- Art 1
- Art Imaging
- College Advanced Graphic Arts
- College Entrepreneurship
- College Introduction to Education
- College Speech Communication
- Graphic Arts Design
- Graphic Arts Technology
- Journalistic Writing
- Small Business Management
- Teacher Internship
- Yearbook

### Career Related Activities

- Art Club
- Art Gallery
- Arts Unlimited
- Athletics
- District Art Show
- Harper Art Show
- Visual Arts Day
- Theater Set Design
- District Career Nights
- District Career Days
- District Career Treks

### Workplace Learning Experiences

- Entrepreneurship
- Industry Mentorship
- Microinternship
- Internship
- Small Business Management
- Teacher Internship

### College Majors (examples)

- Art
- Art Education
- Film and Photo
- Fine Arts
- Photography

### Careers (examples)

- Art Director
- Art Teacher
- Artist
- Cinematographer
- Commercial and Industrial Designer
- Photographer: Digital, Still, Video, Film

### Certificates: Harper

- Graphic Arts Digital Photography
Business Management and Administration

Planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.

D214 Pathway/Program of Study
- Business Management and Administration
Business Management and Administration

Business Management and Administration

Pathway Courses

Year 1  •  Introduction to Business
Year 2  •  College Entrepreneurship
Year 3  •  College Business  
          •  College Accounting
Year 4  •  AP Economics

Related Electives

•  AP Calculus
•  AP Statistics
•  College Speech Communication
•  Small Business Management
•  Sports Marketing
•  World Language

Career Related Activities

•  Athletics
•  Community Service Club
•  Debate
•  Distributive Education Clubs of America (DECA)
•  District Career Nights
•  District Career Days
•  District Career Treks
•  Leadership Council
•  Startup Showcase
•  Student Council

Workplace Learning Experiences

•  College Entrepreneurship
•  Industry Mentorship
•  Internship
•  Microinternship
•  Small Business Management

Certificates: Harper

•  Administrative Assistant/Business
•  Software Specialist
•  Advanced Management
•  Business Analyst
•  Computers in Business
•  Conversational Spanish
•  Electronic Bookkeeping
•  Fundraising for Nonprofits
•  General Management
•  Human Resource Management
•  International Business
•  Lean Six Sigma Green Belt
•  MCSE: SQL Business Intelligence
•  Meeting and Event Planning

College Majors (examples)

•  Accounting
•  Business Administration and Management
•  Business Management/Economics
•  Entrepreneurial and Small Business Operations
•  Human Resources Management
•  Logistics
•  Management Information Systems
•  Office Management and Supervision
•  Public Relations/Advertising/
  Applied Communications

Careers (examples)

•  Accountant and Auditor
•  Advertising Manager
•  Computer and Information System Manager
•  Financial Analyst
•  Human Resource Specialist
•  Logistician
•  Market Research Analyst
•  Market Research Specialist
•  Operations Research Analyst
•  Sales Manager
•  Tax Preparer
•  Treasurers and Controller
Education and Training

Planning, managing and providing education and training services and related learning support services.

D214 Pathways/Programs of Study
- Teaching/Training: Early Childhood Education
- Teaching/Training: Primary Education
- Teaching/Training: Secondary Education
Teaching/Training

Early Childhood Education

Pathway Courses

Year 1
- Foundations for Learning and Development
- Introduction to Teaching Methods

Year 2
- College Introduction to Early Childhood Education
- Practicum in Early Childhood Education 2

Year 3
- Practicum in Early Childhood Education 3/4

Related Electives

- AP Psychology
- College Education Academy
- College Entrepreneurship
- College Introduction to Education
- College Speech Communication
- Introduction to Business
- Small Business Management
- Teacher Internship Program
- World Language

Career Related Activities

- Athletics
- District Career Days
- District Career Nights
- District Career Treks
- Educators Rising
- Principals Advisory Council
- Scholastic Bowl
- Service Learning
- Student Athletic Trainer
- Student Council
- Student Tutor

Workplace Learning Experiences

- Education Academy
- Entrepreneurship
- Industry Mentorship
- Internship
- Introduction to Teaching Methods
- Microinternship
- Small Business Management
- Teacher Internship Program

Certificates: High School

- American Heart Association – CPR
- American Heart Association – First Aid
- Gateway Level 1

Certificates: Harper

- Conversational Spanish
- Early Childhood Education: Administrator Certificate
- Early Childhood Education: Assistant Teacher
- Early Childhood Education: Before/After School Care
- Early Childhood Education: Family Child Care
- Early Childhood Education: Infant/Toddler
- Early Childhood Education: Special Education Paraprofessional
- Early Childhood Education: Teacher
- Paraprofessional Educator
- Substitute Teacher

College Majors (examples)

- Early Childhood Education
- Multicultural/ESL Education
- Special Education
- Sport and Fitness Management

Careers (examples)

- Coach
- Education Administrator
- Elementary School Teacher
- Kindergarten Teacher
- Librarian
- Multicultural/ESL Teacher
- Pre-School Teacher
- Special Education teacher
- Teacher Assistant
Teaching/Training

Primary Education

Pathway Courses

Year 1
- Foundations for Learning and Development
- Introduction to Teaching Methods

Year 2
- College Introduction to Education
- Teacher Internship Program

Year 3
- College Education Academy

Related Electives
- AP Psychology
- College Speech Communication
- World Language

Career Related Activities
- Athletics
- District Career Days
- District Career Nights
- District Career Treks
- Educators Rising
- Principals Advisory Council
- Scholastic Bowl
- Service Learning
- Student Athletic Trainer
- Student Council
- Student Tutor

Workplace Learning Experiences
- Education Academy
- Industry Mentorship
- Internship
- Introduction to Teaching Methods
- Microinternship
- Teacher Internship Program

Certificates: Harper
- Conversational Spanish
- Library Assistant
- Paraprofessional Educator
- Substitute Teacher

College Majors (examples)
- Library Science
- Multicultural/ESL Education
- Primary Education
- School Administration
- School Counseling
- Special Education
- Sport and Fitness Management

Careers (examples)
- Coach
- Education Administrator
- Elementary/Junior High Teacher
- Librarian
- Multicultural/ESL Teacher
- School Counselor
- Special Education Teacher
- Teacher Assistant
- Vocational Education Teacher
### Teaching/Training

#### Secondary Education

#### Pathway Courses

**Year 1**
- Foundations for Learning and Development
- Introduction to Teaching Methods

**Year 2**
- Teacher Internship Program
- College Introduction to Education

**Year 3**
- AP Coursework in Curriculum
- College Education Academy

#### Related Electives
- AP Coursework in Curriculum
- AP Psychology
- College Speech Communication
- World Language

#### Career Related Activities
- Athletics
- District Career Days
- District Career Nights
- District Career Treks
- Educators Rising
- Principals Advisory Council
- Scholastic Bowl
- Service Learning
- Student Athletic Trainer
- Student Council
- Student Tutor

#### Workplace Learning Experiences
- Education Academy
- Industry Mentorship
- Internship
- Introduction to Teaching Methods
- Microinternship
- Teacher Internship Program

#### Certificates: High School
- AAFCS – Education Fundamentals
- American Heart Association – CPR
- American Heart Association – First Aid
- Gateway Level 1

#### Certificates: Harper
- Conversational Spanish
- Library Assistant
- Paraprofessional Educator
- Substitute Teacher

#### College Majors (examples)
- Library Science
- Multicultural/ESL Education
- School Administration
- School Counseling
- Secondary Education
- Special Education
- Sport and Fitness Management
- Teaching Content Area

#### Careers (examples)
- Coach
- Education Administrator
- High School/Secondary Teacher
- Librarian
- Multicultural/ESL Teacher
- School Counselor
- Special Education Teacher
- Teacher Assistant
- Vocational Education Teacher
Finance

Planning, services for financial and investment planning, banking, insurance and business financial management.

D214 Pathway/Program of Study
- Finance
Finance

Pathway Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Introduction to Business</td>
</tr>
<tr>
<td>Year 2</td>
<td>College Entrepreneurship</td>
</tr>
<tr>
<td>Year 3</td>
<td>College Accounting</td>
</tr>
<tr>
<td>Year 4</td>
<td>AP Economics</td>
</tr>
</tbody>
</table>

Related Electives

- AP Calculus
- AP Computer Science – A
- AP Statistics
- College Business
- College Speech Communication
- Personal Finance
- Small Business Management

Career Related Activities

- Athletics
- Club Treasurer
- Distributive Education Clubs of America (DECA)
- District Career Nights
- District Career Days
- District Career Treks
- Math Team
- Startup Showcase
- Student Council

Workplace Learning Experiences

- College Entrepreneurship
- Industry Mentorship
- Internship
- Microinternship
- Small Business Management

Certificates: Harper

- Electronic Bookkeeping
- Financial Management
- MCSE: SQL Business Intelligence

College Majors (examples)

- Actuarial Science
- Banking and Financial Support Services
- Business and Personal/Financial Services
- Marketing Operations
- Credit Management
- Financial Planning Services
- Insurance
- International Finance
- Investments and Securities

Careers (examples)

- Actuary
- Budget Analyst
- Credit Analyst
- Financial Service
- Insurance Appraiser
- Insurance Underwriter
- Loan Officer
- Sales Agent
- Securities and Commodities
- Telemarketer
- Teller
- Treasurer and Controller
Government and Public Administration

Planning and performing government functions at the local, state and federal levels, including governance, national security, foreign service, planning, revenue and taxation and regulations.

D214 Pathways/Programs of Study
- Foreign Service
- Governance, Public Management and Administration
Government and Public Administration

Foreign Service

Pathway Courses

| Year 1 | AP Psychology |
| Year 2 | AP European History |
| Year 3 | AP Government |

Related Electives

- College Speech Communication
- Naval Science (NJROTC)
- World Language

Career Related Activities

- Athletics
- Debate Team
- District Career Days
- District Career Nights
- District Career Treks
- Leadership Council
- Naval Science (NJROTC)
- Speech Team
- Student Council
- Student Tutor

Workplace Learning Experiences

- Industry Mentorship
- Internship
- Microinternship

Certificates: Harper

- Conversational Spanish
- Public Relations
- Public Relations for the Web

College Majors (examples)

- Political Communication
- Political Science and Government
- Public Administration
- Public Policy Analysis

Careers (examples)

- Administrative Services Manager
- Emergency Management Director
- General and Operations Manager
- Legislator
- Political Scientist
- Public Relations Specialist
- Reporter and Correspondent
Governance and Public Management and Administration

Pathway Courses

Year 1  • Introduction to Business
Year 2  • AP Psychology
Year 3  • AP Government

Related Electives

• AP Statistics
• College Accounting
• College Business
• College Speech Communication
• Naval Science (NJROTC)
• World Language

Career Related Activities

• Athletics
• Debate Team
• District Career Days
• District Career Nights
• District Career Treks
• Leadership Council
• Naval Science (NJROTC)
• Speech Team
• Student Council
• Student Tutor

Workplace Learning Experiences

• Industry Mentorship
• Internship
• Microinternship

Certificates: Harper

• Conversational Spanish
• Building Codes and Enforcement
• Emergency and Disaster Management
• Public Relations
• Public Relations for the Web

College Majors (examples)

• American Government and Politics
• City/Urban, Community and Regional Planning
• Political Communication
• Political Science and Government
• Public Administration
• Public Policy Analysis
• Urban Studies/Affairs

Careers (examples)

• Administrative Services Manager
• Chief Executive
• Emergency Management Director
• General and Operations Manager
• Legislator
• Political Scientist
• Postmaster and Mail Superintendent
• Public Relations Specialist
• Reporters and Correspondent
• Social and Community Service Manager
2,700
student workplace learning experiences

37,500
early college credits earned by students
Health Science

Planning, managing and providing therapeutic services, diagnostic services, health informatics, support services and biotechnology research and development.

D214 Pathway/Program of Study
- Health Science
Health Science

Pathway Courses

Year 1  •  Introduction to Health Careers
Year 2  •  Medical Terminology
Year 3  •  College Nursing Assistant Training
Year 4  •  Medical Science Academy
          •  Middle College: Health Careers

Related Electives

•  AP Biology
•  AP Chemistry
•  AP Psychology
•  College Health Occupations Career Observation
•  College Speech Communication
•  Experiential Medical Physiology and Biochemistry
•  Human Physiology

Career Related Activities

•  Athletics
•  District Career Days
•  District Career Nights
•  District Career Treks
•  Health Careers Club
•  Student Athletic Trainers

Workplace Learning Experiences

•  College Nursing Assistant Training
•  Experiential Medical Physiology and Biochemistry
•  Industry Mentorship
•  Internship
•  Microinternship
•  Medical Science Academy

Certificates: High School

•  State of Illinois Certified Nursing Assistant

Certificates: Harper

•  Cardiographic Technician
•  Certified Nursing Assistant
•  Computed Technology (CT)
•  Emergency Medical Services: EMT Basic
•  Health Information Technology
•  Health Care Office Assistant
•  Health Insurance Specialist
•  Mammography
•  Medical Assistant
•  Paramedic
•  Pharmacy Technician
•  Physical Therapy Aide
•  Practical Nursing
•  Phlebotomy
•  Therapeutic Massage

College Majors (examples)

•  Biotechnology
•  Community Health and Preventive Medicine
•  Dentistry
•  Emergency Medical Technology/Technician
•  Health Informatics/Medical Records Administration
•  Medicine
•  Nursing
•  Pharmacy

Careers (examples)

•  Dentist/Dental Technician
•  Dietitian and Nutritionist
•  Emergency Medical Technicians and Paramedic
•  Experiential Medical Physiology and Biochemistry
•  Health Technologists and Technician
•  Medical Records and Health Information Technician
•  Nurse/Nursing Assistant
•  Occupational and Physical Therapist
•  Pharmacist/Pharmacy Technician
•  Physician Assistant
•  Physician/Doctor/Surgeon
•  Psychiatrist
Hospitality and Tourism

Management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services.

D214 Pathway/Program of Study
- Restaurants and Food/Beverage Services: Culinary Arts
Restaurants and Food/Beverage Services

Culinary Arts

Pathway Courses

Year 1  •  Foods 1 / Foods 2
Year 2  •  College Culinary Arts / ProStart 1
Year 3  •  College Culinary Arts / ProStart 2
         •  College ProStart Internship

Related Electives

•  College Entrepreneurship
•  College Speech Communication
•  Introduction to Business
•  Small Business Management

Career Related Activities

•  Athletics
•  Distributive Education Clubs of America (DECA)
•  District Career Days
•  District Career Nights
•  District Career Treks
•  Family, Career and Community Leaders of America (FCCLA)
•  Speech Team
•  World Language Club

Workplace Learning Experiences

•  Entrepreneurship
•  Industry Mentorship
•  Internship
•  Microinternship
•  ProStart
•  Small Business Management

College Majors (examples)

•  Baking and Pastry Arts/Baker/Pastry Chef
•  Cooking and Related Culinary Arts, General
•  Culinary Arts/Chef Training
•  Hotel Administration/Management
•  Restaurant/Food Services Management

Careers (examples)

•  Baker
•  Chef and Head Cook
•  Food Service Manager
•  Hotel/Resort Manager
•  Waiter/Waitress

Certificates: High School

•  Food Handler
•  National Restaurant Association ProStart Certificate of Achievement

Certificates: Harper

•  Bread and Pastry Arts
•  Conversational Spanish
•  Culinary Arts
•  Escoffier Online Culinary Arts
•  Food Service Management
•  Hotel Management
Human Services

Preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care and consumer services.

D214 Pathways/Programs of Study
- Counseling and Mental Health Services
- Personal Care Services: Cosmetology
- Personal Care Services: Personal Training
Human Services

Counseling and Mental Health Services

Pathway Courses

Year 1  •  Human Growth and Child Development
Year 2  •  Sociology
Year 3  •  AP Psychology
Year 4  •  Sociology of Service Learning

Related Electives

• College Speech Communication
• Small Business Management

Career Related Activities

• Athletics
• District Career Days
• District Career Nights
• District Career Treks
• Family Career and Community Leaders of America (FCCLA)
• Peer Mentor
• Service Learning
• Student Council
• Student Tutor

Workplace Learning Experiences

• Industry Mentorship
• Internship
• Microinternship
• Small Business Management

Certificates: Harper

• Activity Director

College Majors (examples)

• Community Health Services
• Family Counseling
• Mental and Social Health Services
• Psychology
• Social Work
• Substance Abuse/Addiction Counseling

Careers (examples)

• Art Therapist
• Child and Family Social Worker
• Clinical, Counseling and School Psychologist
• Mental Health Counselor
• Music Therapist
• Substance Abuse and Behavioral Disorder Counselor
### Personal Care Services

**Cosmetology**

<table>
<thead>
<tr>
<th>Pathway Courses</th>
<th>Related Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td>▪ College Speech Communication&lt;br&gt;▪ Small Business Management</td>
</tr>
<tr>
<td>▪ Cosmetology</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Related Activities</th>
<th>Careers (examples)</th>
</tr>
</thead>
<tbody>
<tr>
<td>▪ Athletics</td>
<td>▪ Barbers</td>
</tr>
<tr>
<td>▪ District Career Nights</td>
<td>▪ Barber, Cosmetology, Esthetician and Nail Technician Teacher</td>
</tr>
<tr>
<td>▪ District Career Days</td>
<td>▪ Cosmetologist</td>
</tr>
<tr>
<td>▪ District Career Treks</td>
<td>▪ Esthetician</td>
</tr>
<tr>
<td>▪ Theater Make-up Crew</td>
<td>▪ Hairdresser, Hairstylist and Cosmetologist</td>
</tr>
</tbody>
</table>

**Workplace Learning Experiences**

- Industry Mentorship
- Internship
- Microinternship
- Small Business Management

**Certificates: High School**

- State of Illinois Cosmetology License
Human Services

Personal Care Services

Personal Training

Pathway Courses

Year 1  •  Personal Trainer Certification

Related Electives

• AP Biology
• College Advanced Strength and Conditioning
• College Speech Communication
• Human Physiology
• Small Business Management

Career Related Activities

• Athletics
• District Career Days
• District Career Nights
• District Career Treks
• Student Trainer

Workplace Learning Experiences

• Industry Mentorship
• Internship
• Microinternship
• Small Business Management
• Student Trainer

College Majors (examples)

• Coaching Education
• Exercise Science
• Health Fitness Specialist
• Kinesiology

Careers (examples)

• Fitness Instructor
• Fitness Program Director
• Personal Trainer
• Sports Program Director
• Strength and Conditioning Coach

Certificates: High School

• Personal Training

Certificates: Harper

• Therapeutic Massage
Information Technology

Building linkages in IT occupations for entry level, technical and professional careers related to the design, development, support and management of hardware, software, multimedia and systems integration services.

D214 Pathways/Programs of Study
- Network Systems/Information Support and Services
- Programming and Software Development
Information Technology

Network Systems/Information Support and Services

Network Systems/Information Support and Services

Pathway Courses

| Year 1 | Computer Programming, Mobile App Development and Networking |
| Year 2 | College A+ Operating Systems Technology, College IT Fundamentals |
| Year 3 | College A+ Hardware, College Computer Networking |
| Year 4 | Advanced Network Systems and Cybersecurity |

Related Electives

- AP Calculus
- AP Chemistry
- AP Computer Science Principles
- AP Physics C
- AP Statistics
- College Speech Communication
- Robotics

Career Related Activities

- Athletics
- Computers Club
- District Career Days
- District Career Nights
- District Career Treks
- Math Team
- Robot Rumble
- Theater Tech Crew
- WildStang FIRST Robotics

Workplace Learning Experiences

- Apprenticeship
- Industry Mentorship
- Internship
- Microinternship
- WildStang FIRST Robotics

Certificates: High School

- CompTIA - IT Fundamentals
- CompTIA - A+
- CompTIA - Network+
- CompTIA - Security +

Certificates: Harper

- Cisco CCNA Network Specialist
- Cisco CCNA Security Specialist
- Computer and Network Security Specialist
- Computer and Network Support Technician

College Majors (examples)

- Computer Engineering
- Computer Information Systems
- Computer Science
- Information Technology
- System Administration
- Web page/Multimedia

Careers (examples)

- Computer and Information Research Scientist and System Manager
- Computer Network Architect and Support Specialist
- Computer Programmer
- Computer Systems Analyst
- Computer User Support Specialist
- Network and Computer Systems or Database Administrator
Programming and Software Development

Pathway Courses

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Computer Programming, Mobile App Development and Networking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 2</td>
<td>Mobile App Development 2/AP Computer Science Principles</td>
</tr>
<tr>
<td>Year 3</td>
<td>AP Computer Science – A</td>
</tr>
<tr>
<td>Year 4</td>
<td>College Cybersecurity and Mobility</td>
</tr>
</tbody>
</table>

Related Electives

- AP Calculus
- AP Chemistry
- AP Physics C
- AP Statistics
- College Speech Communication
- Entrepreneurship
- Graphic Arts Design
- Robotics

Career Related Activities

- Athletics
- Computers Club
- District Career Days
- District Career Nights
- District Career Treks
- Math Team
- Robot Rumble
- Theater Tech Crew
- WildStang FIRST Robotics

Workplace Learning Experiences

- Apprenticeship
- Entrepreneurship
- Industry Mentorship
- Internship
- Microinternship
- WildStang FIRST Robotics

Certificates: Harper

- Accessible Web Design and Compliance
- Interactive Website Design
- iPhone Applications Development
- Java Programmer
- MCSA Data Platform: SQL Server 2012 Database
- Oracle Database Administrator
- MCSD: Web Applications
- Microsoft Specialist: Visual Studio
- Web Maintenance and Design
- Software Development

College Majors (examples)

- Artificial Intelligence and Robotics
- Computer Information Systems
- Computer Engineering
- Computer Programming
- Computer Science
- Information Technology
- System Administration
- Web page/Multimedia

Careers (examples)

- Computer and Information Research Scientist and System Manager
- Computer Hardware Engineer
- Computer Network Architects and Support Specialist
- Computer Operator and Programmer
- Computer Science or Engineering Teacher
- Computer Systems or Information Security Analyst
- Computer User Support Specialist
- Multimedia Artist and Animator
- Network and Computer System or Database Administrator
- Software Developer: Applications or System Software
District 214 Internship Program

The District 214 Internship Program integrates academic career pathway curriculum with supervised work experience in the community. Internships are an essential part of a student’s academic experience which promotes the life-long education process of integrating work and learning; enables students to view their internship experience within a broad world perspective; assists advanced skill development and career decision-making; drives individual success through on-the-job experiences; and provides students with valuable networking opportunities.

Micro Internship
- Open to juniors and seniors 16+ years of age
- Throughout the school year
- 30 hours, for 1-4 weeks

Semester-long Internship
- Open to juniors and seniors
- Fall, Spring, or Summer semester
- 5-10 hours a week during Fall and/or Spring; 15 hours a week during Summer for 6 weeks
- Unpaid, credit bearing course (0.25 per semester)

Objectives of an Internship
- To observe and engage with professionals in their typical work setting.
- To learn specific job tasks of the person(s) you work alongside.
- To be assigned authentic work tasks as developmentally appropriate.
- To gain insight into the career planning process including interests, abilities and values that may align with a particular career.
- To identify potential career opportunities with possible majors of study.
- To develop critical thinking competencies and problem solving abilities, to find a common ground among competing points of view and work toward a solution acceptable to diverse interests.
- To gain awareness of the ethics and some of the societal and world issues that affect your workplace.
- To gain self-awareness and begin to see yourself as a productive member of the profession.
- To understand the skills obtained during your internship as well as the contributions you make to your organization’s success.
- To have the opportunity to improve your ability to communicate including developing and utilizing networking skills.

Detailed information about the program including the program application is located on the District 214 website: www.d214.org/academics/district-internship-program/

For questions, contact your student’s counselor, or email Scott Gustafson, CTE Program Supervisor, at scott.gustafson@d214.org or call 847-718-7867.
Law, Public Safety, Corrections and Security

Planning, managing and providing legal, public safety, protective services and homeland security, including professional and technical support services.

D214 Pathways/Programs of Study
- Criminal Justice
- Emergency and Fire Management Services
- Legal Services
## Law, Public Safety, Corrections and Security

### Law Enforcement Services/Corrections Services

#### Criminal Justice

**Pathway Courses**

<table>
<thead>
<tr>
<th>Year</th>
<th>Courses</th>
</tr>
</thead>
</table>
| Year 1 | - American Law  
- Sociology |
| Year 2 | - Constitutional Law  
- Criminal and Civil Law |
| Year 3 | - Introduction to Criminal Justice (Harper College)  
- Introduction to Corrections (Harper College) |

**Related Electives**

- AP Psychology  
- College Speech Communication  
- Naval Science (NJROTC)  
- Sociology of Service Learning

**Career Related Activities**

- Athletics  
- Debate Team  
- District Career Days  
- District Career Nights  
- District Career Treks  
- Service Learning  
- Speech Team  
- Student Council

**Workplace Learning Experiences**

- Industry Mentorship  
- Internship  
- Microinternship

**Certificates: Harper**

- Emergency and Disaster Management  
- Forensic Science Technician  
- Law Enforcement and Justice Admin Degree  
- Private Security  
- Public Safety Dispatcher

**College Majors (examples)**

- Corrections and Criminal Justice  
- Court Reporter  
- Forensic Science and Technology  
- Law  
- Legal Assistant/Paralegal

**Careers (examples)**

- Arbitrator, Mediator and Conciliator  
- Child, Family and School Social Worker  
- Correctional Officer  
- Court Reporter/Paralegal/Legal Assistant  
- Criminal Investigator/Detective/Special Agent  
- Forensic Science Technician  
- Hearing Officer  
- Immigration and Customs Inspector  
- Police Officer/Detective  
- Private Security  
- Sheriffs and Deputy Sheriff
Emergency and Fire Management Services

Pathway Courses

Year 1
- American Law
- Sociology

Year 2
- College Introduction to Fire Science
- College Fire Behavior and Combustion

Related Electives

- AP Psychology
- College Speech Communication
- Introduction to Health
- Naval Science (NJROTC)
- Sociology of Service Learning

Career Related Activities

- Athletics
- District Career Days
- District Career Nights
- District Career Treks
- Service Learning

Workplace Learning Experiences

- Industry Mentorship
- Internship
- Microinternship

Certificates: Harper

- Emergency and Disaster Management
- Public Safety Dispatcher
- Emergency Medical Services: EMT Basic
- Paramedic

College Majors (examples)

- Fire Protection and Safety Technician
- Fire Science/Firefighting
- Fire Services Administration

Careers (examples)

- Correctional Officer
- Emergency Management
- Fire Inspector
- Fire Investigator
- Firefighter
- First-line Supervisors of Fire Fighting and Prevention Worker
- Forest Fire Inspector/Firefighter
- Paramedic
# Law, Public Safety, Corrections and Security

## Legal Services

### Pathway Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>Course(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>American Law</td>
</tr>
<tr>
<td>Year 2</td>
<td>Constitutional Law, Criminal and Civil Law</td>
</tr>
<tr>
<td>Year 3</td>
<td>AP Social Science Coursework</td>
</tr>
<tr>
<td>Year 4</td>
<td>Advanced Legal Concepts and Issues, College Legal Research and Argument</td>
</tr>
</tbody>
</table>

### Related Electives

- AP Psychology
- AP English Language and Composition
- College Speech Communication
- Naval Science (NJROTC)
- Sociology
- Sociology of Service Learning
- World Language

### Career Related Activities

- Athletics
- Debate Team
- District Career Days
- District Career Nights
- District Career Treks
- Service Learning
- Speech Team
- Student Council

### Workplace Learning Experiences

- Industry Mentorship
- Internship
- Microinternship
- Mock Trial

### College Majors (examples)

- Advanced Legal Research/Studies
- Court Reporter
- Law
- Legal Assistant/Paralegal

### Careers (examples)

- Arbitrator, Mediator and Conciliator
- Court Reporter
- Hearing Officer
- Judge
- Judicial Law Clerk
- Lawyer
- Legal Assistant/Paralegal

### Certificates: Harper

- Paralegal Studies
Manufacturing

Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

D214 Pathways/Programs of Study
- Production: Fashion Construction
- Production: Manufacturing
### Manufacturing

#### Production

**Fashion Construction**

<table>
<thead>
<tr>
<th>Pathway Courses</th>
<th>Related Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td>• College Entrepreneurship</td>
</tr>
<tr>
<td>• Fashion Design</td>
<td>• College Fashion Merchandising</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td>• College Speech Communication</td>
</tr>
<tr>
<td>• College Fashion Construction</td>
<td>• Small Business Management</td>
</tr>
</tbody>
</table>

**Career Related Activities**
- Athletics
- Family, Career and Community Leaders of America (FCCLA)
- District Career Days
- District Career Nights
- District Career Treks
- Theater Tech Crew

**Workplace Learning Experiences**
- Entrepreneurship
- Industry Mentorship
- Internship
- Microinternship
- Small Business Management

**Certificates: Harper**
- Advanced Patternmaking

**College Majors (examples)**
- Apparel Technology
- Textile Studies
- Fashion Design
- Fashion Studies
- Fashion Merchandising

**Careers (examples)**
- Costume Designer
- Fabric and Apparel Patternmaker
- Fashion Designer
- Pattern Designer
- Textile Knitting and Weaving Machine Setter, Operator and Tender
- Textile, Apparel and Furnishings Worker
Production

Manufacturing

Pathway Courses

Year 1  •  PLTW Introduction to Engineering Design
Year 2  •  PLTW Computer Integrated Manufacturing
Year 3  •  College Advanced Machine Technology
Year 4  •  College Advanced CNC Manufacturing

Related Electives

• College Speech Communication
• Drafting/CAD
• Robotics
• Woodworking

Career Related Activities

• Athletics
• District Career Days
• District Career Nights
• District Career Treks
• High Mileage Vehicle Club
• Robot Rumble
• Skills USA
• Theater Tech Crew
• WildStang FIRST Robotics

Workplace Learning Experiences

• Apprenticeship
• Industry Mentorship
• Internship
• Microinternship
• WildStang FIRST Robotics

Certificates: High School

• NIMS: Measurement, Material and Safety
• TMA Related Junior Theory
• NIMS: Level I CNC Lathe Operation
• NIMS: Level 1 Certification – Mill Operation
• Sandvik Coromant MCT-E Learning
• MSSC: Safety Certification
• MSSC: Quality Control
• American Welding Society

Certificates: Harper

• Lean Six Sigma Green Belt
• Manufacturing Basic
• Computer Numerical Control (CNC) Operator I
• Computer Numerical Control (CNC) Operator II

• Manufacturing Production
• Advanced Welding
• Basic Pipe Welding
• Basic Welding
• Welding Fabrication

College Majors (examples)

• Electronic Equipment Installation
• Industrial Production Technologies
• Machine Tool Technologies
• Nuclear Power Technologies
• Sheet Metal Technology
• Tool and Die Technology
• Welding Technology
• Woodworking

Careers (examples)

• Chemical Equipment Operator
• Civil Engineering Technician
• Computer-Controlled Machine Tool Operator
• Construction and Related Worker
• Electrical Engineering Technician
• Engineering Technician, Except Drafter
• Installation, Maintenance and Repair Worker
• Industrial Engineering Technician
• Machinist
• Mechanical Engineering Technician
• Occupational Health and Safety Specialist
• Tool and Die Maker
• Welding, Soldering and Brazing Machine Setter, Operators and Tender
• Woodworker
39 different industry certifications offered to District 214 students

1,000 business and industry partnerships
Marketing

Planning, managing and performing marketing activities to reach organizational objectives.

D214 Pathway/Program of Study
- Marketing
### Marketing

#### Pathway Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to Business</td>
</tr>
<tr>
<td>2</td>
<td>College Entrepreneurship</td>
</tr>
<tr>
<td>3</td>
<td>College Business</td>
</tr>
<tr>
<td></td>
<td>College Accounting</td>
</tr>
<tr>
<td>4</td>
<td>AP Economics</td>
</tr>
</tbody>
</table>

#### Related Electives

- AP Calculus
- AP Statistics
- College Speech Communication
- Computer Programming, Mobile App and Networking
- Graphic Art Design
- Small Business Management
- Sports and Entertainment Marketing

#### Career Related Activities

- Athletics
- Distributive Education Clubs of America (DECA)
- District Career Days
- District Career Nights
- District Career Treks
- Newspaper
- School Store
- Yearbook

#### Workplace Learning Experiences

- College Entrepreneurship
- Industry Mentorship
- Internship
- Microinternship
- Small Business Management

#### Certificates: Harper

- E-Commerce Business
- eMarketing Essentials
- Managing Social Media Platforms
- Marketing
- Marketing Research
- MCSE: SQL Business Intelligence
- Mobile Marketing
- Real Estate Staging
- Retail Merchandising
- Sales Management and Development
- Social Media for Business
- Social Media Marketing Specialist
- Video Marketing

#### College Majors (examples)

- Advertising
- Fashion Merchandising
- International Marketing
- Marketing
- Merchandising
- Public Relations
- Retail Operations
- Sales/Distribution

#### Careers (examples)

- Advertising and Promotions Manager
- Appraiser and Assessor of Real Estate
- Demonstrator and Product Promoter
- Market Research Analyst and Marketing Specialist
- Meeting, Convention and Event Planner
- Public Relation
- Real Estate Broker
- Sales and Related Worker
- Survey Researcher
- Wholesale and Retail Buyer
Science, Technology, Engineering and Mathematics

Planning, managing and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services and research and development services.

D214 Pathways/Programs of Study
- Engineering and Technology: Engineering
- Science and Mathematics: Science Research and Development
- Science and Mathematics: Social Science Research and Development
- Science and Mathematics: Mathematics
Science, Engineering and Mathematics

Engineering and Technology

Engineering

Pathway Courses

Year 1
- PLTW Introduction to Engineering Design

Years 2 - 3
- PLTW Civil Engineering and Architecture
- PLTW Aeronautical Engineering
- PLTW Computer Integrated Manufacturing
- PLTW Digital Electronics

Year 4
- AP Physics
- PLTW Engineering Design and Development
- PLTW Principles of Engineering

Related Electives
- Advanced Machine Technology
- AP Biology
- AP Chemistry
- AP Environmental Science
- AP Physics
- AP Statistics
- Calculus (AP Calculus, AB, BC)
- College Speech Communication
- Computer Programming, Mobile App and Networking
- Drafting/CAD
- Robotics

Career Related Activities
- Athletics
- Computers Club
- District Career Days
- District Career Nights
- District Career Treks
- High Mileage Vehicle Club
- Math Team
- Robot Rumble
- Science Olympiad
- WildStang FIRST Robotics

Workplace Learning Experiences
- Apprenticeship
- Industry Mentorship
- Internship
- Microinternship
- WildStang FIRST Robotics

Certificates: Harper
- Alternative Electrical Energy
- AutoCAD Designer
- Electrical Maintenance
- Electronics
- Industrial Electronics Maintenance
- Lean Six Sigma Green Belt
- Mechatronics
- Project Management Specialist
- Radio Frequency ID (RFID) Electronics
- Revit Architectural Designer

College Majors (examples)
- Aerospace Engineer
- Agricultural Engineer
- Biomedical Engineer
- Chemical Engineer
- Civil Engineer
- Electrical Engineer
- Engineering Technician
- Industrial Engineer
- Mechanical Engineer
- Nuclear Engineer

Careers (examples)
- Aerospace Engineer
- Agricultural Engineer
- Biomedical Engineer
- CAD Designer
- Chemical Engineer
- Civil Engineer
- Draftsman
- Electrical Engineer
- Engineering Technician
- Industrial Engineer
- Mechanical Engineer
- Nuclear Engineer
Science and Mathematics

Science Research and Development

Pathway Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Biology</td>
</tr>
<tr>
<td>2</td>
<td>Chemistry</td>
</tr>
<tr>
<td>3</td>
<td>Physics</td>
</tr>
<tr>
<td>4</td>
<td>AP Science</td>
</tr>
</tbody>
</table>

Related Electives

- AP Calculus
- AP Statistics
- College Introduction to Nanotechnology
- College Speech Communication

Career Related Activities

- Athletics
- Computers Club
- District Career Days
- District Career Nights
- District Career Treks
- High Mileage Vehicle Club
- Math Team
- Robot Rumble
- Science Olympiad
- WildStang FIRST Robotics

Workplace Learning Experiences

- Industry Mentorship
- Internship
- Microinternship
- WildStang FIRST Robotics

College Majors (examples)

- Anatomy/Physiology
- Astronomy
- Biology/Biological Sciences
- Chemistry
- Ecology
- Geology/Earth Science
- Physics

Careers (examples)

- Astronomer
- Atmospheric and Space Scientist
- Biological Scientist
- Chemist
- Geoscientist
- Medical Scientist
- Microbiologist
- Museum Curator
- Physicist
- Research Technician
- Survey Researcher
- Zoologists and Wildlife Biologist
Science, Engineering and Mathematics

Science and Mathematics

Social Science Research and Development

### Pathway Courses

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Human Geography</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 2</td>
<td>World History</td>
</tr>
<tr>
<td>Year 3</td>
<td>US History</td>
</tr>
<tr>
<td>Year 4</td>
<td>AP Economics</td>
</tr>
<tr>
<td></td>
<td>AP European History</td>
</tr>
<tr>
<td></td>
<td>AP Psychology</td>
</tr>
<tr>
<td></td>
<td>AP US Government</td>
</tr>
</tbody>
</table>

### Related Electives

- AP Statistics
- College Speech Communication
- World Language

### Career Related Activities

- Athletics
- District Career Days
- District Career Nights
- District Career Treks

### Workplace Learning Experiences

- Industry Mentorship
- Internship
- Microinternship

### College Majors (examples)

- Anthropology
- Archeology
- Economics
- History
- Geography
- Global Studies
- Political Science
- Psychology
- Sociology

### Careers (examples)

- Anthropologist
- Archaeologist
- Economist
- Geographer
- Historian
- Museum Curator
- Political Scientist
- Psychologist
- Research Scientist/Assistant
- Sociologist
Science and Mathematics

Mathematics

Pathway Courses

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Algebra</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 2</td>
<td>Geometry</td>
</tr>
<tr>
<td>Year 3</td>
<td>Precalculus</td>
</tr>
<tr>
<td>Year 4</td>
<td>AP Calculus</td>
</tr>
<tr>
<td></td>
<td>AP Statistics</td>
</tr>
</tbody>
</table>

Related Electives

- AP Biology
- AP Chemistry
- AP Computer Science Principles
- AP Computer Science – A
- AP Economics
- AP Environmental Science
- AP Physics C
- College Speech Communication
- Computer Programming, Mobile App
  and Networking

Career Related Activities

- Athletics
- Computers Club
- District Career Days
- District Career Nights
- District Career Treks
- Math Team
- Science Olympiad
- WildStang FIRST Robotics

College Majors (examples)

- Algebra and Number Theory
- Applied Mathematics
- Computational Mathematics
- Mathematics
- Mathematics and Computer Science
- Statistics and Probability

Careers (examples)

- Applied Mathematician
- Mathematician
- Statistician
- Survey Researcher

Workplace Learning Experiences

- Industry Mentorship
- Internship
- Microinternship
1,000 students in the IT pathway
Engineering and Health Sciences are most popular pathways
2 million hours of workplace learning earned
Transportation, Distribution and Logistics

Planning, management and movement of people, materials and goods by road, pipeline, air, rail and water and related professional and technical support services, such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

D214 Pathways/Programs of Study
- Facility and Mobile Equipment Maintenance: Automotive Service
- Facility and Mobile Equipment Maintenance: Aviation
- Facility and Mobile Equipment Maintenance: Heating, Ventilation and Air Conditioning (HVAC)
Facility and Mobile Equipment Maintenance
Automotive Service

Pathway Courses

Year 1
- Automotive Systems/Personal Auto

Year 2
- Diagnostic Testing and Repair

Year 3
- College Automotive Engine Performance and Electrical Systems
- College Vocational Automotive

Year 4
- Power-On-Site Training (POST)

Related Electives
- College Advanced Machine Technology
- PLTW Introduction to Engineering Design
- College Speech Communication

Career Related Activities
- Athletics
- Auto Club
- District Career Days
- District Career Nights
- District Career Treks
- High Mileage Vehicle Club
- Robotics Club
- Skills USA
- Team Manager

Workplace Learning Experiences
- Apprenticeship
- Industry Mentorship
- Internship
- Microinternship
- Power on-site Training

Certificates: High School
- Snap-On/NC3 Digital Multi-Meter Certification
- AllData: Certified Automotive Information Specialist
- ASE Student Certification – G1: Maintenance and Light Repair
- ASE Student Certification – A1: Engine Repair
- ASE Student Certification – A2: Automatic Transmission/Transaxle
- ASE Student Certification – A3: Manual Drive Train and Axles
- ASE Student Certification – A4: Suspension and Steering
- ASE Student Certification – A5: Brakes
- ASE Student Certification – A6: Electrical/Electronic Systems
- ASE Student Certification – A7: Heating and Air Conditioning
- ASE Student Certification – A8: Engine Performance

Certificates: (Harper/Triton College)
- Automotive Brake and Suspension
- Automotive Engine Performance
- Automotive Engine Repair
- Automotive Technology
- Automotive Transmission

College Majors (examples)
- Aircraft Maintenance
- Autobody/Collision and Repair Technicians
- Automotive Mechanics Technology/Technician
- Diesel Mechanics Technology/Technician
- Engine Machinist
- Small Engine Mechanics and Repair Technology/Technician
- Vehicle Emissions Inspection and Maintenance Technology/Technician

Careers (examples)
- Aircraft Maintenance Technician
- Automotive Body and Related Repairer
- Automotive Service Technician and Mechanic
- Automotive Specialty Technician
- Bus and Truck Mechanics and Diesel Engine Specialist
- Engine and Other Machine Assembler
- Installation, Maintenance and Repair Worker
Facility and Mobile Equipment Maintenance

Aviation

Pathway Courses

Year 1
- Automotive Systems
- PLTW Introduction to Engineering Design

Year 2
- PLTW Aeronautical Engineering

Year 3
- College Aviation Fundamentals
- College Aviation Physics I

Related Electives
- College Speech Communication
- Diagnostic Testing and Repair
- PLTW Principles of Engineering

Career Related Activities

- Athletics
- Auto Club
- District Career Days
- District Career Nights
- District Career Treks
- High Mileage Vehicle Club
- Robotics Club
- Skills USA
- Team Manager

Workplace Learning Experiences

- Industry Mentorship
- Internship
- Microinternship

College Majors (examples)

- Aviation Administration
- Aviation and Aerospace Technology
- Aviation Flight Management
- Aviation Maintenance Management
- Air Traffic Control Management
- Supply Chain Management/Logistics
- Transportation, Distribution and Logistics
- Unmanned Aircraft Systems

Careers (examples)

- Aerospace Engineer
- Aircraft Maintenance Technician
- Air Crew Member
- Airfield Operations Specialist
- Air Traffic Controller
- Avionics Technician
- Commercial Pilot
Facility and Mobile Equipment Maintenance

Heating, Ventilation and Air Conditioning (HVAC)

Pathway Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>College Heating Principles</td>
<td>Harper College</td>
</tr>
<tr>
<td>Year 2</td>
<td>College Heating and Cooling Controls</td>
<td>Harper College</td>
</tr>
<tr>
<td>Year 3</td>
<td>College Domestic Refrigeration Appliances</td>
<td>Harper College</td>
</tr>
</tbody>
</table>

Related Electives

- College Speech Communication
- Introduction to Engineering Design
- PLTW Civil Engineering and Architecture

Career Related Activities

- Athletics
- District Career Days
- District Career Nights
- District Career Treks
- High Mileage Vehicle Club
- Robotics Club
- Skills USA

Workplace Learning Experiences

- Apprenticeship
- Industry Mentorship
- Internship
- Microinternship

Certificates: Harper

- Domestic Refrigeration and Heating
- Heating Service
- Refrigeration Service
- Refrigeration/Air Conditioning Service
- Residential Comfort Systems

College Majors (examples)

- Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician

Careers (examples)

- Heating, Ventilation, Air Conditioning Installer
- Heating, Ventilation, Air Conditioning Service Technician/Mechanic
- Heating, Ventilation and Air Conditioning Specialist
- Systems Mechanic
Extended educational opportunities in which students engage in authentic and relevant work aligned with a career pathway. These experiences allow students to participate in a professional work environment and assist with career skill development and decision making. These opportunities may provide varied levels of support, depending upon students’ individual needs.

Our Mission:
The Center for Career Discovery serves the school community through career readiness services, programs and events which support students’ career skill development, decision-making, and post-secondary goals.

Independent Community Based (Tier 1)
- Independent community-based workplace experience which integrates academic curriculum with work experience in the community, designed to support a student’s post-secondary goal and self-identified career interests.
- Students must be able to work independently in the community. Periodic support and feedback provided by staff.
- Examples: Ed Academy, Med Academy, ProStart, Robotics, Cosmetology, Project Lead the Way, Health Occupations Career Observation.

Daily Supported Community Based (Tier 2)
- Supported community-based worksite where a Job Coach provides students with training, daily monitoring and ongoing support.
- Emphasis is placed on the development of appropriate work habits and behavior, job readiness, and soft skills.
- Students are required to demonstrate appropriate work-related skills in order to enhance work ethic, increase maturity, self-awareness, and provide valuable lessons such as pride in performance.

Highly Supported (Tier 3)
- Highly structured work environment with close supervision and significant support provided by staff.
- Emphasis is placed on the development of appropriate work habits, requisite behavior and career readiness skills.
- Examples: LIFE (Learning, Independence, Fulfillment and Enrichment), Forest Brew Micro Business at The Academy at Forest View