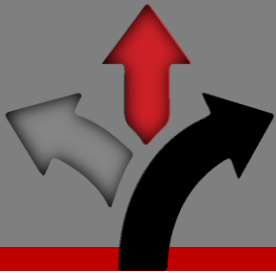




# MUNDELEIN HIGH SCHOOL DISTRICT 120 CAREER PATHWAYS



**2022 - 2023**



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# PATHWAYS

## What are Pathways?

**Career Pathways are similar to majoring in college, except that students may start their learning experience in high school.**

**Every student, no matter what their postsecondary plans are, can benefit by selecting and following a sequence of career related classes designed for their area of interest.**

- **A Pathway is a sequence of courses within your area of interest.**
- **A Pathway will connect your career interests from high school to college and/or career.**
- **A Pathway is your educational road map guiding you to the high school courses and postsecondary options most relevant to your chosen career destination.**
- **A Pathway will help you acquire the depth of knowledge and skill linked with specific postsecondary programs that will lead to a certificate or degree and/or career.**

## Why a Pathway?

**Families and students note that finding a career that students are interested and passionate about is important. Learning real world skills in school is one way to accomplish this goal. Pathways provide a blend of curriculum, real world learning, industry skills, knowledge, and qualifications that students will need to be successful postsecondary. Research also notes students and families engaged in a Pathway note they are getting a jump start on their future career.**

- **Pathway students have opportunities to earn college credit in high school through our Dual Credit as related to their Pathway.**
- **Pathways students historically exceed expectations. Nearly every state reports a higher graduation rate for Pathways students compared to all students.**

## College and Career Pathways Endorsement

Through a Pathway, students have the opportunity to earn a College and Career Pathways Endorsement. This designation recognizes that students have successfully demonstrated knowledge and skills required for success in postsecondary education and employment. Additionally, students have engaged in career exploration and development to improve students' decision-making for subsequent education and career advancement.

### What is required for a student to earn a pathway endorsement?

In order to earn a College and Career Pathway Endorsement, a student must satisfy all of the following:

- **Develop and periodically update an individualized plan for postsecondary education or training, careers, and financial aid. Included in the plan should be development of a resume and personal statement. This plan must span grades 9-12th and include an annual process for updating the plan.**
- **Complete at least 2 Career Exploration Activities or one Intensive Career Exploration Experience, at least 2 Team-based Challenges, and at least 60 cumulative hours of participation in one or more Supervised Career Development Experiences.**
- **Demonstrate readiness for non-remedial coursework in reading and math by high school graduation.**

### Top 5 Careers

Industry states that many of the future jobs we can not see yet. However, at the present time, jobs forecast to be in high need over the next several years include:

- 1. App Developer**
- 2. Computer System Analyst**
- 3. Nurse Practitioner**
- 4. Physical Therapist**
- 5. Health Services Manager**

# COLLEGE AND CAREER VIRTUAL TOOLS



[www.youscience.com](http://www.youscience.com)

**YouScience is the science of YOU – how your mind is wired, what makes you tick, the skills and knowledge that set you apart. You have talent and there’s a path that’s right for you – YouScience can help you find it. Your aptitudes (natural abilities most important to career choice) and interests give you a unique approach and a competitive advantage for careers. Aptitudes don’t care what you look like or where you’re from – YouScience can help you plan a future that makes the most of your special kind of awesome.**



[www.naviance.com](http://www.naviance.com)

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

**These resource is used by counselors, teachers, case managers, students, and families to guide students’ high school and postsecondary experiences. Information is timely, based on student aptitudes and interests, and links to cross content experiences.**

**Students will set up their own YouScience and Naviance accounts. Please see your counselor for more information and questions.**

# MUNDELEIN HIGH SCHOOL DISTRICT 120 CONTACT INFORMATION

## Mundelein High School

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# INTRODUCTION and DEFINITIONS

Mundelein High School District 120 uses the following nationally recognized terms to help guide students through the selection of coursework and to support their decision making process in preparing for their postsecondary plans and goals.

**Articulated Credit:** A way to start a college technical major in high school. Students who meet eligibility requirements that are set by the institution of higher education may earn proficiency credit, which can be used to meet program course requirements only at that institution. In contrast, dual credit courses are accepted outside of the awarding institution.

**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.

**Career Cluster:** A group of related occupations and industries that have a set of aligned foundational knowledge and skills. There are 16 nationally recognized Career Clusters which each contain multiple Career Pathways.

**Career Pathway:** A multi-year program of academic and technical study that prepares students for a wide range of postsecondary options in a related career field. Career Pathways provide a context for exploring career options. Career Pathways link student learning to the knowledge and skills needed for future education and employment.

**Career Technical Education (CTE):** Provides students with the academic and technical skills, knowledge, and training necessary to succeed in future careers and to become lifelong learners. In total, about 12.5 million high school and college students are enrolled in CTE courses across the nation.

**Certifications:** Opportunities 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 & Career Pathway Endorsement:** Illinois' College and Career Pathway Endorsements (CCPE) system is a cornerstone strategy of the Postsecondary & Workforce Readiness (PWR) Act to increase the number of Illinois high school graduates prepared for postsecondary education and future careers. To earn an Endorsement on a high school transcript, a student must complete an individualized learning plan, engage in a career-focused instructional sequence (including early college credit), participate in work-based learning, and demonstrate readiness for college-level reading and math. Students earning the Endorsement will develop technical and essential employability competencies, earn in-demand credentials, and be prepared to launch rewarding careers.

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

**Dual Credit:** Dual Credit programs provide students an opportunity to earn both high school and college credit upon successful completion of a college course. All dual credit courses are college level and will be listed on an official college transcript. Mundelein High School District 120 has established several Dual Credit options for students. The college courses are transferable to higher education institutions and/or provide opportunities for specific pathway-related training and earning industry-recognized certifications. Students are encouraged to confirm how each individual course may fit his/her program of study at that institution.

**College of Lake County:** Also known as CLC, is the serving community college of Mundelein High School District 120.

**External Experiences/Internships:** Extended educational opportunities in which students engage in authentic and relevant work aligned with a Career Pathway. External experiences include the involvement and support.

**Pathway Courses:** Recommended sequence of courses which provide students opportunities to explore and develop skills within a specific career area. Required pathway courses are those course a student must complete in order to achieve the pathway endorsement on his/her graduation transcript.

**Prerequisite Courses:** A prerequisite is a specific course that must be completed before the next course in the sequence.

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



# CAREER CLUSTERS AND PATHWAYS

**Finding the best ways for students to learn and achieve success in high school and beyond is not only the goal of Mundelein High School District 120, 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 and learning communities 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 the 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**

## **National Career Clusters™**

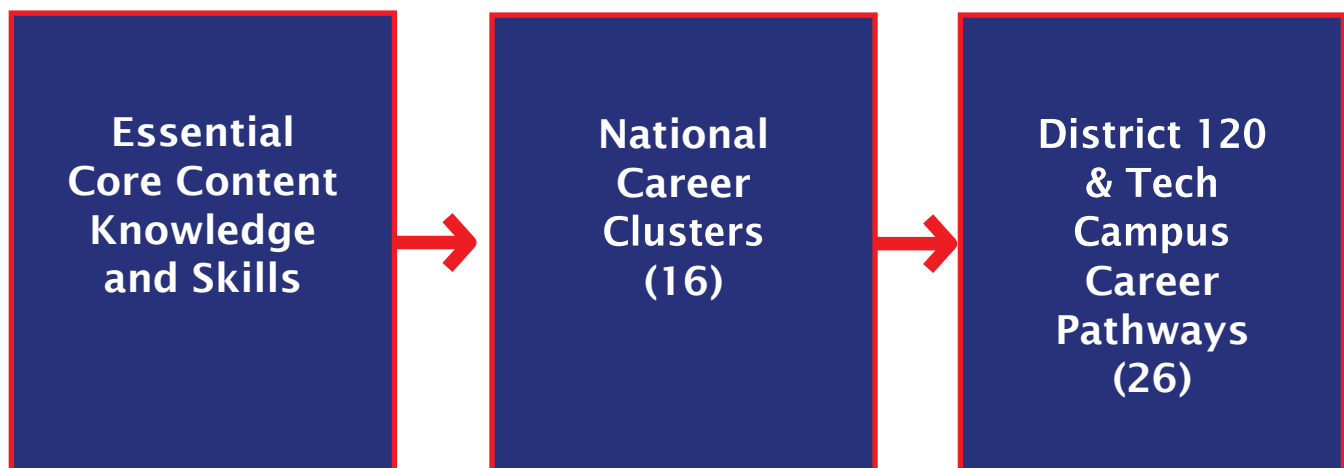
**Frameworks are comprised of 16 Career Clusters and related to Career Pathways to help students explore different career options and better prepare for college and career.**

**A National Career Cluster is a grouping of occupations and related broad industries. Courses and experiences at the Career Cluster level represent the skills and knowledge, both academic and technical, that all students within the Career Cluster should achieve regardless of their pathway.**

**Bolded Clusters are currently offered in Mundelein High School District 120.**

## The Sixteen National Career Clusters

01. Agriculture, Food, and Natural Resources
02. Business Management and Administration
03. Finance
04. Government and Public Administration
05. Marketing
06. Education and Training
07. Hospitality and Tourism
08. Human Services
09. Health Science
10. Architecture and Construction
11. Arts, Audio/Video Technology, and Communications
12. Information Technology
13. Law Enforcement Services/Corrections Services
14. Manufacturing
15. Science, Technology, Engineering, and Mathematics
16. Transportation, Distribution and Logistics



# MUNDELEIN HIGH SCHOOL DISTRICT 120 CAREER PATHWAYS



[www.d120.org/Pathways](http://www.d120.org/Pathways)

**The Mundelein High School District 120 Pathway Programs offer students fourteen unique pathways to college and career success. MHS also partners with the Lake County Tech Campus to offer an additional twelve pathways. Completion of a pathway will provide students with real world knowledge, experience, and skills to thrive in college classrooms, and to compete for 21st century careers. Following are just a few examples of the post-secondary advantages (available at time of printing) for students graduating with a pathway endorsement.**

- Northern Illinois University’s College of Education
  - Admitted students with the endorsement are automatically advanced as finalists to receive select scholarships and to participate in the college’s innovative Educate and Engage program.
  - EdSystems [announced](#) a partnership with Golden Apple Scholars of Illinois, which is automatically advancing any applicants who have earned or are on track to earn the CCPE to the final stage of the application process.
- HB2170, also known as the Education Omnibus bill, includes an update to the Illinois’ Minority Teachers of Illinois Scholarship to fund students graduating with any of the pathway endorsements (Article 120).
- Chicago State University announced students who earn the Pathway Endorsement in Education and apply for the Diverse Scholars in Education Scholarship or Call Me Mister Program are automatically advanced as finalists

## Pathways offered at Mundelein High School District 120:

MUNDELEIN HIGH SCHOOL		MHS & TECH CAMPUS
<a href="#"><u>Advanced Manufacturing MacLean-Fogg</u></a>	<a href="#"><u>Broadcasting &amp; Journalism</u></a>	<a href="#"><u>3D Gaming &amp; Cyber Security</u></a>
<a href="#"><u>Manufacturing Education &amp; Growth Alliance (MEGA)</u></a>	<a href="#"><u>Performing Arts - Music</u></a>	<a href="#"><u>Auto Collision Repair</u></a>
<a href="#"><u>ASPIRE Academy - Elementary and Secondary Education</u></a>	<a href="#"><u>Performing Arts - Theatre</u></a>	<a href="#"><u>Automotive Service</u></a>
<a href="#"><u>Business – General Management &amp; Entrepreneurship</u></a>	<a href="#"><u>Visual Arts</u></a>	<a href="#"><u>Certified Nurse Assistant</u></a>
<a href="#"><u>Pre-Law</u></a>	<a href="#"><u>Computer Science - Programming</u></a>	<a href="#"><u>Construction Skills &amp; Mgmt.</u></a>
<a href="#"><u>Pre-Med</u></a>	<a href="#"><u>STEM: Pre-Engineering &amp; Robotics</u></a>	<a href="#"><u>Cosmetology</u></a>
<a href="#"><u>Photography &amp; Graphic Design</u></a>	<a href="#"><u>STEM: Nanosystems - Engineering</u></a>	<a href="#"><u>Culinary Arts</u></a>
		<a href="#"><u>Early Childhood Education</u></a>
		<a href="#"><u>Emergency Medical Services</u></a>
		<a href="#"><u>Firefighting</u></a>
		<a href="#"><u>Law Enforcement</u></a>
		<a href="#"><u>Welding</u></a>

(Click on the Pathway to go directly to the career cluster and pathway courses and progression)

# ARCHITECTURE AND CONSTRUCTION

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

# CONSTRUCTION SKILLS & MGMT.

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## Mundelein High School District 120 & Tech Campus Pathway

### Pathways Courses

Year 1: **Industrial Technology**

Year 2: **Building Trades or  
Geometry in Construction**

Year 3: **Construction Skills & Mgmt I\***  
@ Tech Campus

Year 4: **Construction Skills & Mgmt II\***  
@ Tech Campus

### Related Electives:

- **PLTW - Intro to Engineering Design**
- **PLTW – Principles of Engineering**
- **Geometry in Construction**

(note: courses with \* are required for this college & career pathway endorsement)

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### Embedded CLC Dual Credit and Articulated Credits:

- **HET 115 – Carpentry I, 3 Credits**
  - **Footings**
  - **Girders**
  - **Floor joists**
  - **Floor openings**
  - **Subflooring**
  - **Balloon and platform types of framing**
  - **Rough framing of windows and doors**
  - **Safe usage of power and hand tools**
- **CMT 116 – Carpentry II, 3 credits  
(Articulated, Year 2)**
  - **Job Planning**
  - **Scheduling**
  - **Critical Path Network**
  - **Construction Specifications**
  - **National, State & Local Building Codes**

### Possible College Majors:

- **Building/Construction Management**
- **Electrical Engineering**
- **Construction Engineering Technology**
- **Architecture and Construction**
- **Energy Management and Systems Technology**
- **Engineering**

### Careers:

- **Carpenter Apprentice**
- **Construction Manager**
- **Electrician Apprentice**
- **Estimator**
- **Heavy Equipment Operator**
- **Laborer Apprentice**
- **Plumber Apprentice**
- **Pre-Engineer**

### Related Clubs/Activities:

- **Summer Work Program**
- **Habitat for Humanity**



[\(Back to Pathways List\)](#)



# **ARTS, AUDIO VISUAL (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.**

# BROADCASTING & JOURNALISM

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## Mundelein High School District 120 Pathway

### Pathways Courses

Year 1: **Honors Media\* & Speech**

Year 2: **Advanced Media\* & Creative Writing**

Year 3: **Journalism: News in the 21<sup>st</sup> Century\***

Year 4: **Honors Student Internship\***

(note: note: courses with \* are required for this college & career pathway endorsement)

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### Related CLC Credit and Articulated Credits:

- **Honors Media dual-credit at CLC for DMD 233 Digital Video Editing**
- **Honors Advanced Media dual-credit at CLC for DMD 170 Introduction to Video Production**

### Possible College Majors:

- **Journalism**
- **Digital Journalism**
- **Broadcasting**
- **Mass Communication**
- **Audiovisual Communications**
- **Cinematography and Film/Video Production**
- **Communication**

### Related Electives:

- **Photography Electives**
- **English: Composition**
- **Business Electives**

### Careers:

- **Film / Video Editor**
- **Writer / Author**
- **Technical Writer**
- **Lyricist, Creative Writer, Poet**
- **Photographer**
- **Editor**
- **News Analyst, Reporter, Journalist**

### Related Clubs/Activities:

- **Broadcasting Team**
- **Year Book**
- **Film Club**
- **Poetry Slam Club**
- **Voices Literary Magazine**



[\(Back to Pathways List\)](#)

# PHOTOGRAPHY & GRAPHIC DESIGN

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## Mundelein High School District 120 Pathway

### Pathways Courses

Year 1: **Digital Photo Design I\***

Year 2: **Honors Digital Photo Studio\***

Year 3: **AP Art Studio\***

Year 4: **Honors Student Internship**

(note: note: courses with \* are required for this college & career pathway endorsement)

---

### Related CLC Credit and Articulated Credits:

- **AP Credit in AP Art Studio**

### Possible College Majors:

- **Advertising Art Direction**
- **Art Education**
- **Graphic Communication**
- **Photojournalism**
- **Publication Design**

### Related Electives:

- **Visual Art Electives**
- **Business Electives**

### Careers:

- **Photojournalist**
- **Commercial/Industrial Photographer**
- **Studio/Portrait Photographer**
- **Freelance Photographer**
- **Wedding Photographer**
- **Sports photographer**
- **Wildlife photographer**

### Related Clubs/Activities:

- **Year Book**
- **Art Club**



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# PERFORMING ARTS - MUSIC

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## Mundelein High School District 120 Pathway

### Pathways Courses

- Year 1: **Concert Band or Choir\***
- Year 2: **Concert Band or Choir\* & Jazz Band or Show Choir\***
- Year 3: **Concert Band or Choir\* & Jazz Band or Show Choir\***
- Year 4: **Concert Band or Choir\* & Jazz Band or Show Choir\* & AP Music Theory\***

(note: note: courses with \* are required for this college & career pathway endorsement)

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### Related CLC Credit and Articulated Credits:

- **AP Credit in AP Music Theory**

### Possible College Majors:

- **Music**
- **Music Business**
- **Music Technology**
- **Music Education**
- **Audio Production**
- **Music Therapy**
- **Music Performance**

### Related Electives:

- **Theatre Electives**
- **Business Electives**

### Example Careers:

- **Musician**
- **Song Writer**
- **Musical Editor**
- **Vocalist**
- **Actor**
- **Music Director**
- **Sound Technician**
- **Arranger**
- **Artist Manager**
- **Composer**
- **Conductor**

### Related Clubs/Activities:

- **Color Guard**
- **Theatre**



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# PERFORMING ARTS - THEATRE

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## Mundelein High School District 120 Pathway

### Pathways Courses

Year 1: **Speech\***

Year 2: **Technical Theatre\* &  
Intro to Theatre\***

Year 3: **Beginning Acting\***

Year 4: **Theatre Studio\***

(note: note: courses with \* are required for this college & career pathway endorsement)

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### Related CLC Credit and Articulated Credits:

- **Currently not applicable**

### Possible College Majors:

- **General Visual & Performing Arts**
- **Theatre Arts**
- **Acting**
- **Theatre Design & Technology**
- **Musical Theatre**
- **Directing & Theatrical Production**
- **Theatre Literature, History and Criticism**
- **Play writing & Screen writing**

### Related Electives:

- **Music Electives**
- **Business Electives**
- **English Electives**
- **A/V Electives**

### Example Careers:

- **Actor, Singer, Dancer**
- **Director**
- **Producer**
- **Playwright**
- **Set Designer**
- **Lighting Designer**
- **Sound Designer**
- **Choreographer**

### Related Clubs/Activities:

- **Theatre**
- **Show Choir**
- **Poetry Slam Club**
- **Broadcasting Team**
- **Film Club**



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# VISUAL ARTS

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## Mundelein High School District 120 Pathway

### Pathways Courses

Year 1: **Art 2D or 3D\***

Year 2: **Drawing/Painting1 or Ceramics or Metals/Jewelry or Product Design\***

Year 3: **Honors Level Art Course\***

Year 4: **AP Art Studio\***

(note: courses with \* are required for this college & career pathway endorsement)

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### Related CLC Credit and Articulated Credits:

- **AP credit via ART Studio**

### Possible College Majors:

- **Sculpture.**
- **Printmaking.**
- **Art design.**
- **Drawing and Painting.**
- **Studio arts.**
- **Architecture.**
- **Digital media.**

### Related Electives:

- **A/V Electives**
- **Business Electives**
- **Music Electives**
- **English Electives**

### Example Careers:

- **Fine Artist**
- **Multimedia Artist**
- **Industrial Designer**
- **Art Director**
- **Graphic Designer**
- **Curator**
- **Art Teacher**
- **Interior Designer**

### Related Clubs/Activities:

- **Art Club**
- **Broadcasting Team**
- **Film Club**
- **Theatre**



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# **BUSINESS MANAGEMENT AND ADMINISTRATION**

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

# GENERAL MGMT & ENTREPRENEURSHIP

---

## Mundelein High School District 120 Pathway:

### Pathways Courses

- Year 1: **Business Law\***
- Year 2: **Sports & Entertainment Marketing\* & Accounting\***
- Year 3: **Business INCubator\***
- Year 4: **Business Internship\***

### Related Electives:

- **Personal Finance**
- **World Languages**
- **Computer Applications**
- **Computer Science Electives**
- **Statistics**

(note: note: courses with \* are required for this college & career pathway endorsement)

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### Related CLC Dual Credit and Articulated Credits:

- **Articulated Accounting Credits with CLC**

### Possible College Majors:

- **Accounting**
- **Business Administration and Management**
- **Business Management and Economics**
- **Entrepreneurial and Small Business Operations**
- **Human Resources Management**
- **Human Resources Management**
- **Logistics**
- **Public Relations/Advertising/ Applied Communication**

### Careers:

- **Business Owner / Entrepreneur**
- **Accountant and Auditor**
- **Financial Advisor**
- **Market Research Researcher and Analyst**
- **Logistician**
- **E-Commerce Analyst**
- **Mortgage Loan Officer**
- **Advertising Manager**
- **Business Operations Manager**
- **Treasures and Controller**

### Related Clubs/Activities:

- **Future Business Leaders of America (FBLA)**
- **Economics Team**
- **Student Leadership**



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# EDUCATION AND TRAINING

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

# EARLY CHILDHOOD EDUCATION

---

## Mundelein High School District 120 & Tech Campus Pathway

### Pathways Courses

Year 1: **Speech**

Year 2: **Child Development\***

Year 3: **Early Education\* @ Tech Campus**

Year 4: **Early Education\* @ Tech Campus**

### Related Electives:

- **Psychology**
- **Sociology**

(note: note: courses with \* are required for this college & career pathway endorsement)

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### Related CLC Dual Credit and Articulated Credits:

- **ECE 116 - Creative Activities for Preschool, 3 credits**
- **ECE 117 - Creative Activities for Infants & Toddlers, 3 credits (Year 2)**
- **ECE 141 - Health, Safety & Nutrition, 3 credits (Year 2)**

### Possible College Majors:

- **Early Childhood Education**
- **Bilingual/Multicultural/ESL Education**
- **Special Education**

### Careers:

- **Preschool Teacher**
- **Kindergarten & Elementary School Teacher**
- **Nanny**
- **Childcare Center Director**
- **Childcare Worker**
- **Special Education Teacher**
- **School Counselor or Psychologist**
- **School Administrator**

### Related Clubs/Activities:

- **Educators Rising**
- **Peer Tutors**
- **Spanish Club**
- **Best Buddies**



[\(Back to Pathways List\)](#)

# ELEMENTARY AND SECONDARY EDUCATION

---

## Mundelein High School District 120 Pathway:

### Pathways Courses

Year 1: **Speech**

Year 2: **Honors Foundations of Development\* & Honors Intro to Teaching\***

Year 3: **Honors Diversity in Schools**

Year 4: **Honors ASPIRE Education Internship\***

**NOTE: At least 2 years of foreign language\* is also required for the pathway endorsement with a strong recommendation for 4 years and/or the state seal of biliteracy.**

(note: note: courses with \* are required for this college & career pathway endorsement)

---

### Related CLC Dual Credit and Articulated Credits:

#### Dual Credits

- **EDU 121 Introduction to Teaching**
- **EDU 124 Child Development for Educators**
- **EDU 224 Diversity in Schools**
- **EWE 120 Job Readiness Skills**
- **EWE 220 Internship I**

### Possible College Majors:

- **Elementary Education**
- **Secondary Education**
- **Bilingual/Multicultural/ESL Education**
- **Special Education**
- **School Counseling**

### Related Electives:

- **2 additional years of Spanish or other foreign language**
- **Psychology**
- **Sociology**

### Careers:

- **Elementary School Teacher**
- **Middle/High School Teacher**
- **Bilingual Teacher**
- **Special Education Teacher**
- **Vocational Education Teacher**
- **School Counselor**
- **School Administrator**

### Related Clubs and Activities:

- **Educators Rising**
- **Peer Tutors**
- **Spanish Club**
- **Best Buddies**



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# HEALTH SCIENCES

**Biotechnology Research and Development, Diagnostic Services, Health Informatics, Support Services and Therapeutic Services**

# CERTIFIED NURSE ASSISTANT

---

## Mundelein High School District 120 & Tech Campus Pathway

### Pathways Courses

Year 1: **Biology\***

Year 2: **Honors Chemistry  
or Chemistry\***

Year 3: **CNA Year 1 @ Tech Campus\***

Year 4: **CNA Year 2 @ Tech Campus\***

(note: note: courses with \* are required for this college & career pathway endorsement)

---

### Related CLC Credit and Articulated Credits:

- **NUR 110 - Nurse Assisting, 7 credits**

### Possible College Majors:

- **Nursing**
- **Nursing Assistant and Patient Care**
- **Practical Nursing, Vocational Nursing and Nursing Assistant**

### Related Electives:

- **Honors Anatomy/Physiology**
- **AP Biology**
- **AP Chemistry**

### Example Careers:

- **Certified Nurse Assistant**
- **Dietician**
- **Health Information Technician**
- **Home Health Aide**
- **Medical Technologist**
- **Nurse's Aide**
- **Registered Nurse**
- **Rehabilitation Aide**
- **Unit Ward Clerk**

### Related Clubs/Activities:

- **Medical Club**



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# PRE-MED

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## Mundelein High School District 120

### Pathways Courses

Year 1: **Biology\***

Year 2: **Honors Chemistry\***

Year 3: **Honors Anatomy/Physiology\*  
& AP Biology\***

Year 4: **AP Chemistry\* &  
Honors Student Internship**

(note: note: courses with \* are required for this college & career pathway endorsement)

---

### Related CLC Credit and Articulated Credits:

- **AP Credits in Chemistry & Biology**
- **Recommended AP Credits in Math and other Core areas**

### Possible College Majors:

- **Biochemistry**
- **Biology / Biological Sciences**
- **Physics**
- **Math and Statistics**
- **Humanities**
- **Physical Sciences**
- **Specialized Health Sciences**
- **Social Sciences**

### Related Electives:

- **AP Physics I & II**
- **AP Math Electives**
- **Nanotechnology and Research**
- **STEM: Inquiry & Research**

### Example Careers:

- **Anesthetist**
- **Cardiologist**
- **Clinical radiologist**
- **General practice doctor**
- **Hospital doctor**
- **Neurologist**
- **Ophthalmologist**
- **Pathologist**
- **Psychiatrist**
- **Surgeon**

### Related Clubs/Activities:

- **Medical Club**
- **Science Olympiad**
- **Academic Team**





# HOSPITALITY & TOURISM

**Lodging, Recreation, Amusement & Attractions, Restaurants and Food/Beverages  
Services, Travel & Tourism**

# CULINARY ARTS

---

## Mundelein High School District 120 & Tech Campus Pathway

### Pathways Courses

Year 1: **Health\***

Year 2: **Foods & Nutrition\***

Year 3: **Culinary Arts Year 1  
@ Tech Campus\***

Year 4: **Culinary Arts Year 2  
@ Tech Campus\***

### Related Electives:

- **Child Development**
- **Science Electives**
- **Business Electives**
- **Honors Student Internship**

(note: note: courses with \* are required for this college & career pathway endorsement)

---

### Related CLC Credit and Articulated Credits:

- **HCM 110 - Introduction to the Hospitality Industry, 3 credits**
- **HCM 113 - Serv-Safe: Food Service Sanitation, 1 credit**
- **HCM 111 - Culinary Principles I, 3 credits (Year 2)**
- **HCM 212 - Menu Marketing and Management, 3 credits (Year 2)**

### Example Careers:

- **Banquet Chef**
- **Caterer**
- **Food Purchaser/Buyer**
- **Food Server**
- **Maitre D'**
- **Pastry Artist**
- **Personal Cook**
- **Restaurant Manager/Owner**
- **Sous Chef**

### Possible College Majors:

- **Banquets and catering.**
- **Basic garde manger (cold dishes)**
- **Food science.**
- **Food service sanitation.**
- **Foundations of baking.**
- **Menu planning and purchasing.**
- **Nutrition.**
- **Professional cooking.**



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# HUMAN SERVICES

**Consumer Services, Counseling & Mental Health Services, Early Childhood Development & Services, Family & Community Services, and Personal Care Services**

# COSMETOLOGY

---

## Mundelein High School District 120 & Tech Campus Pathway

### Pathways Courses

Year 1: **Biology\***

Year 2: **Chemistry\***

Year 3: **Cosmetology Year 1**  
**@ Tech Campus\***

Year 4: **Cosmetology Year 2**  
**@ Tech Campus\***

### Related Electives:

- **Speech**
- **Art Electives**
- **Theatre Electives**
- **Business Electives**
- **Honors Student Internship**

(note: courses with \* are required for this college & career pathway endorsement)

---

### Related CLC Credit and Articulated Credits:

- **N/A at time of printing**

### Program Description:

The Tech Campus offers a **Cosmetology** program that includes nail technology. Students will acquire the 1500 hours of experience required for licensing while learning how to perform shampoos, make-overs, facials, hair-styling, manicuring, sculptured nails, permanent waving, hair coloring, and cutting. Following the lab phase of the program, students will reinforce their training through in internship serving clients in the Tech Campus Creations Salon.

### Example Careers:

- **Color/Perm Specialist**
- **Hair Designer**
- **Hair Stylist**
- **Make-up Artist**
- **Manicurist**
- **Nail Technician**
- **Platform Artist**
- **Product Representative**
- **Salon Owner or Manager**
- **TV/Movie Studio Artist**



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# 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.**



# 3D Gaming & Cybersecurity

---

## Mundelein High School District 120 & Tech Campus Pathway

### Pathways Courses

Year 1: **Application Coding & Development\***

Year 2: **AP Computer Science Principles**

Year 3: **3D Gaming & Cybersecurity  
@ Tech Campus\***

Year 4: **3D Gaming & Cybersecurity  
@ Tech Campus\***

(note: courses with \* are required for this college & career pathway endorsement)

---

### Related Electives:

- **Math Electives**
- **PLTW Electives**
- **AP Computer Science A**

### Related CLC Credit and Articulated Credits:

- **CIT 120 - Introduction to Computers, 3 credits**
- **CIT 138 - Introduction to C# Programming, 3 credits**
- **CIT 177 - 3D Game Development, 3 credits**

### Possible College Majors:

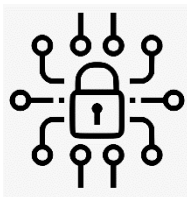
- **Computer Engineering**
- **Computer Information Systems**
- **Computer Science**
- **Information Technology**
- **System Administration**
- **System Networking and Lan/Wan Management**

### Careers:

- **2D & 3D Animator**
- **Artist/Animator/Director**
- **Business Development Specialist**
- **C# Programmer**
- **CIS/MIS Manager**
- **CIS/MIS Specialist**
- **Computer Engineer**
- **Game Designer/Programmer**
- **Information Specialist**
- **Lead Designer**
- **Creative Director**
- **Technical Director**
- **Web Developer**
- **Mobile App Developer**

### Related Clubs/Activities:

- **Byte Club**
- **Gaming Club**
- **Robotics**
- **FBLA**



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# COMPUTER PROGRAMMING

---

## Mundelein High School District 120 Pathway

### Pathways Courses

Year 1: **Application Coding & Development\***

Year 2: **AP Computer Science Principles\***

Year 3: **AP Computer Science A\***

Year 4: **Honors Student Internship or other related work experience\***

### Related Electives:

- **PLTW Electives**
- **(Advanced) Math Electives**
- **(Advanced) Science Electives**
- **Business Electives**

(note: courses with \* are required for this college & career pathway endorsement)

---

### Related CLC Credit and Articulated Credits:

- **AP Credit available in Computer Science Principles and Computer Science A**

### Possible College Majors:

- **Information Technology – Programming**
- **Computer Science**
- **Management Information Systems**
- **Computer Software and Applications**
- **Systems Analysis**

### Careers:

- **Software application developer.**
- **Web developer.**
- **Computer systems engineer.**
- **Database administrator.**
- **Computer systems analyst.**
- **Software quality assurance (QA) engineer.**
- **Business intelligence analyst.**
- **Computer programmer**
- **Network Systems Administrator**

### Related Clubs/Activities:

- **Byte Club**
- **Robotics**
- **FBLA**



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# **LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY**

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

# PRE-LAW

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## Mundelein High School District 120 Pathway

### Pathways Courses

Year 1: **Business Law\***

Year 2: **Civil Law\***

Year 3: **Criminal Law\***

Year 4: **Honors Student Internship\***

### Related Electives:

- **AP History**
- **AP Government & Politics**
- **AP Psychology**
- **AP Economics**

(note: courses with \* are required for this college & career pathway endorsement)

---

### Related CLC Dual Credit and Articulated Credits:

### Possible College Majors:

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

### Careers:

- **Lawyer or attorney**
- **Paralegal**
- **Compliance specialist**
- **Law firm administrator**
- **Court clerk**
- **Judge**
- **Legislative analyst**
- **Chief legal officer (CLO)**
- **Politician**
- **Court messenger**
- **Legal recruiter**

### Related Clubs/Activities:

- **Economics Team**
- **Debate Team**
- **Mock Trial Team**
- **Model UN**
- **Philosophy Club**



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# LAW ENFORCEMENT & CSI

---

## Mundelein High School District 120 & Tech Campus Pathway

### Pathways Courses

Year 1:

Year 2: **Criminal Law\***

Year 3: **Law Enforcement & CSI Year 1**  
@ Tech Campus\*

Year 4: **Law Enforcement & CSI Year 2**  
@ Tech Campus\*

(note: courses with \* are required for this college & career pathway endorsement)

---

### Related Electives:

- **Business Electives**
- **Social Studies Electives**
- **World Languages**

### Related CLC Dual Credit and Articulated Credits:

- **CRJ 118 - Introduction to Forensics,  
3 credits**

### Possible College Majors:

- **Social Studies**
- **Advanced Legal Research/Studies**
- **Court Reporter**
- **Legal Assistant/Paralegal**

### Careers:

- **Animal Control Worker**
- **Community Service Officer**
- **Correctional Officer**
- **Court Reporter or Detective**
- **Emergency Dispatch Operator**
- **First-line Police Officer**
- **Forensic Officer**
- **Homeland Security**
- **Judge, Lawyer or Paralegal**
- **Parking Enforcement Officer**
- **Police Cadet or Police Officer**
- **Probation Officer**
- **Security Guard**
- **Transit/Railroad Police**

### Related Clubs/Activities:

- **After School Coalition**



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# FIREFIGHTING

---

## Mundelein High School District 120 & Tech Campus Pathway

### Pathways Courses

Year 1: **Health\***

Year 2: **Industrial Technology\***

Year 3: **Firefighting Year 1**  
@ Tech Campus\*

Year 4: **Firefighting Year 2**  
@ Tech Campus\*

### Related Electives:

- **Building Trades**
- **Business Electives**
- **Social Studies Electives**
- **World Languages**

(note: courses with \* are required for this college & career pathway endorsement)

---

### Related CLC Dual Credit and Articulated Credits:

- **FST 111 - Introduction to Fire Science, 3 credits**

### Possible College Majors:

- **Fire Science**
- **Emergency Medical Services**
- **Fire Technology**
- **Fire Administration**
- **Firefighter / Paramedic**

### Careers:

- **Career Fire Fighter**
- **Contract Fire Fighter**
- **Fire Chief**
- **Fire Fighting Instructor**
- **Fire Investigator**
- **Fire Prevention Officer**
- **Fire Service Officer**
- **Industrial Fire Fighter**
- **Paid-On-Call Fire Fighter**
- **Senior Fire Service Officer**
- **Specialty Certifications**
- **Volunteer Fire Fighter**

### Related Clubs/Activities:

- **After School Coalition**



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# EMERGENCY MEDICAL SERVICES

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## Mundelein High School District 120 & Tech Campus Pathway

### Pathways Courses

Year 1: **Health\***

Year 2: **Industrial Technology\***

Year 3: **Emergency Medical Services Year 1**  
@ Tech Campus\*

Year 4: **Emergency Medical Services Year 2**  
@ Tech Campus\*

### Related Electives:

- **Honors Anatomy & Physiology**
- **AP Biology**
- **AP Chemistry**
- **Social Studies Electives**
- **World Languages**

(note: courses with \* are required for this college & career pathway endorsement)

---

### Related CLC Dual Credit and Articulated Credits:

- **EMT 111 - Emergency Medical  
Technician - Basic, 7 credits**

### Possible College Majors:

- **Emergency Management/Homeland  
Security**
- **Fire Science**
- **Nursing (RN)**
- **Physician Assistance**
- **Premedicine**
- **Surgical Technology**

### Careers:

- **Basic/First Responder**
- **Career Fire Fighter/Paramedic**
- **Contract Paramedic**
- **Electrocardiogram Technician**
- **Emergency Medical Technician**
- **Emergency Room Technician**
- **Patient Care Technician**
- **Registered Nurse**

### Related Clubs/Activities:

- **Medical Club**
- **After School Coalition**



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# MANUFACTURING

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



# MANUFACTURING – MacLean-Fogg

---

## Mundelein High School District 120 Pathway

### Pathways Courses

Year 1: **PLTW IED\***

Year 2: **PLTW POE**

Year 3: **MacLean-Fogg Internship  
Junior Year\***

Year 4: **MacLean-Fogg Internship  
Senior Year\***

### Related Electives:

- **Industrial Technology**
- **Building Trades**
- **PLTW CIM**
- **Business Electives**

(note: courses with \* are required for this college & career pathway endorsement)

---

### Related CLC Dual Credit and Articulated Credits:

- **MTT 110 Machine Trades Blueprint Reading (3 credit hours)**
- **CNC 111 Geometric Dimensioning and Tolerancing (3 credit hours)**
- **MTT 112 Machining Principles (3 credit hours)**
- **CNC 110 CNC Operations (3 credit hours)**  
**Eligible to Earn 4 NIMS Industry Credentials**
  - **Job Planning, Benchwork, and Layout**
  - **Measurement, Materials, and Safety**
  - **CNC Milling Operations**
  - **CNC Lathe Operations**

### Possible College Majors:

- **Applied Manufacturing Technology**
- **Industrial and Systems Engineering**
- **Manufacturing Engineering Technology**

### Careers:

- **Assembler**
- **Boilermaker**
- **Design, Environmental or Safety Engineer**
- **CNC Operator or Programmer**
- **Logistician**
- **Precision Machinist**
- **Foundry Worker**
- **Safety Technician**

### Related Clubs/Activities:

- **Robotics Team**



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# MANUFACTURING – MEGA (Manufacturing Education & Growth Alliance)

---

## Mundelein High School District 120 Pathway

### Pathways Courses

Year 1: **Industrial Technology\***

Year 2: **PLTW IED\***

Year 3: **PLTW POE**

Year 4: **MEGA – Senior Sem 1 @ CLC\***  
**MEGA – Senior Sem 2 internship\***

### Related Electives:

- **Building Trades**
- **PLTW CIM**
- **Business Electives**

(note: courses with \* are required for this college & career pathway endorsement)

---

### Related CLC Dual Credit and Articulated Credits:

- **EWE 120 Job Readiness**  
(1 credit hour)
- **MTT 112 Machining Principles**  
(3 credit hours)
- **CNC 110 CNC Operations**  
(3 credit hours)  
**Eligible to Earn 4 NIMS Industry  
Credentials**
  - **Job Planning, Benchwork, and Layout**
  - **Measurement, Materials, and Safety**
  - **CNC Milling Operations**
  - **CNC Lathe Operations**

### Possible College Majors:

- **Applied Manufacturing Technology**
- **Industrial and Systems Engineering**
- **Manufacturing Engineering Technology**

### Careers:

- **Assembler**
- **Boilermaker**
- **Design, Environmental or Safety Engineer**
- **CNC Operator or Programmer**
- **Logistician**
- **Precision Machinist**
- **Foundry Worker**

### Related Clubs/Activities:

- **Robotics Team**



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# WELDING TECHNOLOGY

---

## Mundelein High School District 120 & Tech Campus Pathway

### Required Pathways Courses

Year 1: **Industrial Technology\***

Year 2: **PLTW IED**

Year 3: **Welding/Fabrication @ Tech Campus\***

Year 4: **Welding/Fabrication @ Tech Campus\***

### Related Electives:

- **PLTW POE & CIM**
- **Building Trades**
- **Business Electives**

(note: courses with \* are required for this college & career pathway endorsement)

---

### Related CLC Dual Credit and Articulated Credits:

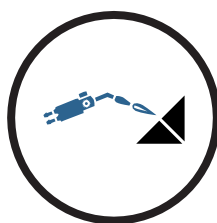
- **WLD 113 - Welding Blueprint Reading, 3 credits**
- **WLD 170 - General Welding, 3 credits**
- **WLD 171 - Gas Welding, Cutting, and Brazing, 3 credits (Year 2)**
- **WLD 172 - Shielded Metal Arc Welding, 3 credits (Year 2)**

### Possible College Majors:

- **Applied Manufacturing Technology**
- **Industrial and Systems Engineering**
- **Manufacturing Engineering Technology**

### Careers:

- **Code Pipe, Plate, or Structural Welder**
- **Construction Welder or Maintenance Welder**
- **Construction Apprentice**
- **Maintenance Welder Apprentice**
- **Mass Production Welder/Weld Tacker**
- **Pipe Fitter Apprentice**
- **Robot Welder Technician**
- **Structural Iron Worker Apprentice**
- **Welder Inspector/Tester**
- **Welder's Assistant/Welder Assembler**
- **Welding Engineer**
- **Welding Foreman/Supervisor**
- **Welding Instructor**
- **Welding Production Manager**



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# **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.**

# ENGINEERING & ROBOTICS

---

## Mundelein High School District 120 Pathway

### Pathways Courses

Year 1: **PLTW - Introduction to Engineering Design\***

Year 2: **PLTW - Principles of Engineering\***

Year 3: **PLTW - Computer Integrated Manufacturing\***

Year 4: **Honors Student Internship or other related work experience\***

### Related Electives:

- **(Advanced) Math Electives**
- **Computer Science Electives**
- **(Advanced) Science Electives**
- **Business Electives**

(note: courses with \* are required for this college & career pathway endorsement)

---

### Possible Industry Certifications:

#### High School

- **Inventor Certification**

### Related CLC Dual Credit and Articulated Credits:

- **Articulated Engineering Credit available at select colleges/universities**

### Possible College Majors:

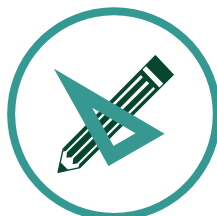
- **Civil Engineering**
- **Mechanical Engineering**
- **Electrical Engineering**
- **Industrial Engineering**
- **Industrial Management**
- **Engineering Education**

### Careers:

- **Aerospace Engineer**
- **Civil Engineer**
- **Drafting and Design Engineer**
- **Electrical Engineer**
- **Industrial Engineer**
- **Mechanical Engineer**
- **Civil Engineer**
- **Nuclear Engineer**
- **Draftsman**
- **Engineering Technician**

### Related Clubs/Activities:

- **Robotics Team**
- **Byte Club**



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# NANOSYSTEMS - ENGINEERING

---

## Mundelein High School District 120 Pathway

### Pathways Courses

Year 1: **PLTW - Introduction to Engineering Design\***

Year 2: **PLTW - Principles of Engineering\***

Year 3: **Nanotechnology and Research\***

Year 4: **STEM Inquiry & Research\***

### Related Electives:

- **(Advanced) Math Electives**
- **Computer Science Electives**
- **(Advanced) Science Electives**
- **Business Electives**

(note: courses with \* are required for this college & career pathway endorsement)

---

### Possible Industry Certifications: High School

- **Inventor Certification**

### Related CLC Dual Credit and Articulated Credits:

- **Articulated Engineering Credit available at select colleges/universities**

### Possible College Majors:

- **Nanosystems Engineering**
- **Civil Engineering**
- **Mechanical Engineering**
- **Electrical Engineering**
- **Industrial Engineering**
- **Industrial Management**
- **Engineering Education**

### Careers:

- **Nanosystems Engineer**
- **Aerospace Engineer**
- **Civil Engineer**
- **Drafting and Design Engineer**
- **Electrical Engineer**
- **Industrial Engineer**
- **Mechanical Engineer**
- **Civil Engineer**
- **Nuclear Engineer**
- **Draftsman**
- **Engineering Technician**

### Related Clubs/Activities:

- **Robotics Team**
- **Byte Club**
- **Science Olympiad**



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# **TRANSPORTATION, DISTRIBUTION & LOGISTICS**

**Facility and Mobile Equipment Maintenance, Logistics Planning and Management Services, Sales and Service, Transportation Operations, Transportation Systems/Infrastructure Planning, Management and Regulation.**

# AUTOMOTIVE COLLISION REPAIR

---

## Mundelein High School District 120 & Tech Campus Pathway

### Pathways Courses

Year 1: **Industrial Technology\***

Year 2: **PLTW – Intro to Engineering Design\***

Year 3: **Auto Collision Repair Year 1**  
**@ Tech Campus\***

Year 4: **Auto Collision Repair Year 2**  
**@ Tech Campus\***

(note: courses with \* are required for this college & career pathway endorsement)

---

### Related Electives:

- **Business Electives**
- **Building Trades**
- **Art Electives**

### Related CLC Dual Credit and Articulated Credits:

- **ACR 110 - Introduction to Collision Repair, 3 credits**
- **ACR 131 - Automotive Refinishing I, 3 credits (Articulated)**
- **ACR 215 - Automotive Detailing, 3 credits (Articulated, Year 2)**

### Possible College Majors:

- **Collision Repair Technology**

### Careers:

- **Auto Body Technician**
- **Corporate Collision**
- **Services Coordinator**
- **Detailer**
- **Insurance Adjuster or Estimator**
- **Manufacturers Representative**
- **Painter**
- **Painter's Apprentice**
- **Paint Technician**
- **Sander and Masker**
- **Shop Owner**

### Related Clubs/Activities:

- **Robotics Team**
- **Art Club**



[\(Back to Pathways List\)](#)



# AUTOMOTIVE SERVICE / REPAIR

---

## Mundelein High School District 120 & Tech Campus Pathway

### Pathways Courses

Year 1: **Industrial Technology\***

Year 2: **PLTW – Intro to Engineering Design\***

Year 3: **Auto Service Year 1 @ Tech Campus\***

Year 3: **Auto Service Year 2 @ Tech Campus\***

(note: courses with \* are required for this college & career pathway endorsement)

---

### Related CLC Dual Credit and Articulated Credits:

- **AUT 110 - Introduction to Automotive,  
4 credits**

### Possible College Majors:

- **Automotive Service & Repair  
Technology**

### Related Electives:

- **Business Electives**
- **Building Trades**
- **Art Electives**

### Careers:

- **Automotive Diagnostician**
- **Automotive Technician**
- **Car Dealer**
- **Car Designer**
- **Car Salesman**
- **Mobile Electronics Installer**
- **Shop Owner**
- **Service Writer**

### Related Clubs/Activities:

- **Robotics Team**



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**MUNDELEIN HIGH SCHOOL  
DISTRICT 120'S CENTRAL  
MISSION**

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**To ensure all students are college or  
career ready upon graduation.**



**MUNDELEIN**  
**HIGH SCHOOL**

1350 W. Hawley Street, Mundelein, IL 60060

[www.d120.org](http://www.d120.org)

