Career Pathways Information

Hazelwood School District

Revised September 14, 2018
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**Statement of Purpose:** Career Pathways can give all students the academic preparation, guidance, career-related knowledge and flexibility to help them plan studies that are in line with their interests, abilities, and career goals. The Career Pathways framework reinforces the schools' fundamental objectives of academic accountability and improved achievement for all students.

This booklet has been designed to assist students and parents in organizing the student’s educational and career plans. The Career Path format has been created to assist each student in developing a personalized six-year academic plan. Students should look at their interests, abilities, talents, and educational/career goals when choosing career pathways and then consider possible careers in each pathway. The intent is not for students to choose a specific occupation for the rest of their lives, but to explore career opportunities that are associated with each career path.

The use of the Career Pathways Handbook will aid students in planning for their futures. Career Pathways will help students focus on and provide relevance to their course selections throughout high school. Each path provides a suggested program of study for entry-level career to careers requiring a baccalaureate degree and beyond.

It is very important to realize that any educational and career plan should be reviewed at least once each year as interests, abilities, and options change with increased experience and information.

The district hopes parents and students find this booklet to be a helpful resource in identifying the opportunities that will be most meaningful to each student’s future endeavors.

**What are Career Pathways?** Career Pathways are clusters of occupations that are grouped because many of the people in them share similar interests and strengths. All pathways include a variety of occupations that require different levels of education and training. Selecting a career path provides you with an area of focus, along with flexibility and a variety of ideas to pursue.

**Career Pathways Available in the Hazelwood School District**

- Arts, A/V Technology and Communication
  - Visual Arts (2D and 3D)
  - Graphic Design
  - Audio/Visual Technology
  - Journalism
  - Acting
  - Musical Theatre
• Technical Theatre
  o Vocal Music
  o Orchestra
  o Band
• Business, Management, and Technology
  o Business Management Administration
  o Finance
  o Information Technology
  o Marketing, Sales and Service
• Health Services
  o Health Science
• Human Services
  o Counseling and Mental Health Services
  o Education and Training
  o Government and Public Administration
  o Restaurant Food and Beverage
  o Fashion
• Science, Technology, Engineering, and Mathematics
  o Engineering and Technology
  o Architecture and Construction
  o Computer Science
  o Construction and Construction Trades

Career Pathways Available at North County Technical School

• Automotive
  o Auto Body
  o Automotive Technology
  o Diesel Technology
• Construction Technology
  o Carpentry
  o Construction Innovations
  o Construction Trades
  o Electrical Trades
  o Heating, Ventilation, and Air Conditioning
• Information Technology
  o Cisco Networking Academy
• Human Services
  o Cosmetology
  o Hospitality and Hotel Management
  o Firefighting
• Law Enforcement
• Health Services
  o Emergency Medical Technician
  o Veterinary Assistant
• Manufacturing
  o Welding
  o Precision Machining

**Internships and Work Related Experiences:** Students will be encouraged to incorporate an internship or work related experience to make their pathway more authentic. Suggestions for these types of experiences are listed on the following pathways. Experiences can be paid or unpaid and can be done after school, on the weekend, or through an established internship course.

**Hazelwood School District Graduation Requirements:** Students will need to make sure they meet all graduation requirements of the Hazelwood School District while pursuing their pathway.

<table>
<thead>
<tr>
<th>Department</th>
<th>Credits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Language Arts</td>
<td>4.0 credits</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4.0 credits</td>
</tr>
<tr>
<td>Science</td>
<td>3.0 credits</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3.0 credits</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>1.0 credit</td>
</tr>
<tr>
<td>Practical Arts</td>
<td>1.0 credit</td>
</tr>
<tr>
<td>Personal Finance</td>
<td>.5 credit</td>
</tr>
<tr>
<td>Health Education</td>
<td>.5 credit</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1.0 credit</td>
</tr>
<tr>
<td>Electives</td>
<td>6.0 credits</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>24 credits</strong></td>
</tr>
</tbody>
</table>

**Extracurricular Activities:** Students will be encouraged to participate in extracurricular (academic) activities to make their pathway more authentic. For example, extracurricular activities such as Future Business Leaders of America (FBLA), Robotics Team, and Distributive Education Club of America (DECA) will include competitive events in which students will compete with students from across the state. There are also clubs that do not offer competitive events, but will help to enhance the pathway experience; these clubs include The Thespians, Ambassadors Club, Science Club, and Anime Club.
Steps to Take

1. **IDENTIFY YOUR INTERESTS, ABILITIES, AND TALENTS**

   - It is important to take a good look at yourself and have a clear understanding of what is important to you. There are a variety of ways to learn more about yourself. Examine your activities to identify what kinds of things you enjoy doing. Review the results of your standardized test scores and examine your grades to identify your strengths.

2. **CONSIDER THE POSSIBLE CAREERS IN EACH CLUSTER**

   - Computer-based programs are available in the Guidance office. These programs are available to students during the school day, after school, and at other times by appointment. Students can access the Missouri Connections system through the internet at www.missouriconnections.org. The features include interests, skills, and work values assessments, a career portfolio, links to job opportunities, postsecondary options, financial aid information, and career development resources.

3. **SELECT THE CAREER PATH THAT BEST FITS YOUR INTERESTS AND STRENGTHS.**

4. **INVESTIGATE AND DECIDE ON THE EDUCATIONAL PREPARATION NEEDED FOR THE CAREER PATH**

   - Your training or education may come from the military, vocational/technical schools, community colleges, universities, on the job training, apprenticeships, etc.

Talk to your counselor today about getting the correct courses on your plan of study to ensure a complete experience within your chosen pathway!!!
College Ready Indicators

Students are on track to being College Ready if they meet either the academic or the standardized testing benchmarks listed in the table below:

<table>
<thead>
<tr>
<th>End of 5th Grade</th>
<th>Academic Standards</th>
<th>Standardized Testing Benchmarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>● Score at least 950 on SRI; and</td>
<td>● Proficient or Advanced on MAP Math GLA; and</td>
</tr>
<tr>
<td></td>
<td>● Earn A, B, or C in 5th Grade Mathematics</td>
<td>● Proficient or Advanced on MAP ELA GLA</td>
</tr>
<tr>
<td>End of 8th Grade</td>
<td>● Score at least 1025 on SRI; and</td>
<td>● Proficient or Advanced on MAP Math GLA; and</td>
</tr>
<tr>
<td></td>
<td>● Earn A, B, or C in 8th Grade Math or Algebra 1</td>
<td>● Proficient or Advanced on MAP ELA GLA</td>
</tr>
<tr>
<td>End of High School</td>
<td>GPA 2.8 or above and one or more of the following indicators:</td>
<td>Receive the following minimum scores on the ACT:</td>
</tr>
<tr>
<td></td>
<td>● Advanced Placement (AP) Exam Score of 3 or higher</td>
<td>● English 18</td>
</tr>
<tr>
<td></td>
<td>● Earn A, B, or C in AP Course</td>
<td>● Reading 22</td>
</tr>
<tr>
<td></td>
<td>● Earn A, B, or C in Dual Credit College English and/or Math course</td>
<td>● Science 23</td>
</tr>
<tr>
<td></td>
<td>● Earn A, B, or C in Algebra 2</td>
<td>● Math 22</td>
</tr>
</tbody>
</table>
Career Ready Indicators

Students are on track to being Career Ready if they have met the indicators listed in the below table at the appropriate benchmarks:

| By the end of **elementary school** | ● 90% Attendance (average of the years of attendance)  
<table>
<thead>
<tr>
<th></th>
<th>● Participated in a service learning project</th>
</tr>
</thead>
</table>
| By the end of **middle school**   | ● 90% Attendance (average of the years of attendance)  
|                                    | ● 10-15 hours of community service **or** participation in extra-curricular clubs/sports  
|                                    | ● Completed the Missouri Connection Inventory |
| By the end of **high school**     | Identified a career interest **and** met 2 of the following behavioral and experiential benchmarks:  
|                                    | ● 90% Attendance  
|                                    | ● 50 hours of Community Service with 25 of the hours related to the student’s identified career pathway  
|                                    | ● Workplace Learning Experience  
|                                    | ● Industry Credential  
|                                    | ● Dual Credit Career Pathway Course  
|                                    | ● Two or more organized Co-curricular Activities |

Each Career Pathway in the Hazelwood School District will offer the following:

1. Sequence of courses that lead beyond high school
2. Workplace learning experience that provides students real-world understanding of career areas through internships or problem-based learning experiences
3. Opportunity to earn career certifications and/or college credit
## Life Ready Indicators

<table>
<thead>
<tr>
<th>Elementary School</th>
<th>Middle School</th>
<th>High School</th>
</tr>
</thead>
<tbody>
<tr>
<td>● Lifelong Learning</td>
<td>● Lifelong Learning</td>
<td>● Lifelong Learning</td>
</tr>
<tr>
<td>● Self-management for Educational Achievement</td>
<td>● Self-management for Educational Achievement</td>
<td>● Self-management for Educational Achievement</td>
</tr>
<tr>
<td>● Transitions</td>
<td>● Transitions</td>
<td>● Transitions</td>
</tr>
<tr>
<td>● Educational Planning for Life-long Learning</td>
<td>● Educational Planning for Life-long Learning</td>
<td>● Educational Planning for Life-long Learning</td>
</tr>
<tr>
<td>● Integration of Self-knowledge into Life and Career Plans</td>
<td>● Integration of Self-knowledge into Life and Career Plans</td>
<td>● Integration of Self-knowledge into Life and Career Plans</td>
</tr>
<tr>
<td>● Education and Career Requirements</td>
<td>● Education and Career Requirements</td>
<td>● Education and Career Requirements</td>
</tr>
<tr>
<td>● Job Seeking Skills</td>
<td>● Job Seeking Skills</td>
<td>● Job Seeking Skills</td>
</tr>
<tr>
<td>Life Skills Indicators</td>
<td></td>
<td></td>
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<tr>
<td>------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>By end of Grade 5</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Life-long learning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Self-management for Educational Achievement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transitions</td>
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<tr>
<td>Educational Planning for Life-long Learning</td>
<td></td>
<td></td>
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<tr>
<td>Integration of Self-knowledge into Life and Career Plans</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Education and Career Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Seeking Skills</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<p>| Demonstrate study skills and test-taking strategies to enhance academic achievement. |
| Demonstrate ability to complete assignments and/or tasks accurately within a specified time frame. |
| Develop an understanding of educational tasks and skills necessary to make a smooth transition to the middle school structure. |
| Recognize the importance of an educational plan. |
| Compare interests and strengths with those of workers in the global community. |
| Compare and contrast the training and educational requirements for a variety of careers. |
| Identify the skills needed to develop a portfolio. |</p>
<table>
<thead>
<tr>
<th>Life-long learning</th>
<th>Self-management for Educational Achievement</th>
<th>Transitions</th>
<th>Educational Planning for Life-long Learning</th>
<th>Integration of Self-knowledge into Life and Career Plans</th>
<th>Education and Career Requirements</th>
<th>Job Seeking Skills</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>By end of Grade 8</strong></td>
<td>Consistently apply a system of study skills and test-taking strategies to promote academic success.</td>
<td>Consistently apply a self-management system to promote academic success.</td>
<td>Identify the information and skills necessary to transition to high school.</td>
<td>Develop an educational and career plan based on current interests, strengths, and limitations.</td>
<td>Identify the training and education required for occupations in career paths of interest.</td>
<td>Utilize a portfolio of middle school academic and work experience.</td>
</tr>
<tr>
<td>By end of Grade 12</td>
<td>Life-long learning</td>
<td>Self-management for Educational Achievement</td>
<td>Transitions</td>
<td>Educational Planning for Life-long Learning</td>
<td>Integration of Self-knowledg e into Life and Career Plans</td>
<td>Education and Career Requirements</td>
</tr>
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<td>----------------------------------------------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>Achieve educational levels necessary to reach, maintain, and continue with individual life-long learning goals.</td>
<td>Exhibit self-management skills necessary for educational achievement.</td>
<td>Utilize the achievement and performance skills necessary to transition to post-secondary options.</td>
<td>Apply information to revise and implement a personal educational plan necessary for life-long learning.</td>
<td>Utilize knowledge of the world of work; personal interests; and strengths and limitations to develop short- and long-term post-secondary plans.</td>
<td>Know and understand the levels of training and education required for life career goals.</td>
<td>Utilize appropriate job-seeking skills to obtain employment.</td>
</tr>
<tr>
<td>Grade</td>
<td>Requirements/Credits</td>
<td>Credits</td>
<td>1st Semester</td>
<td>2nd Semester</td>
<td>Review Each Semester</td>
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<td></td>
</tr>
<tr>
<td>9</td>
<td>Language Arts</td>
<td>1</td>
<td></td>
<td></td>
<td>9th Grade Review</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Social Studies</td>
<td>1</td>
<td></td>
<td></td>
<td>Dates: _____________</td>
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</tr>
<tr>
<td></td>
<td>Mathematics</td>
<td>1</td>
<td></td>
<td></td>
<td>Student's Signature(s): _____________</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Science</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Health</td>
<td>1/2</td>
<td></td>
<td></td>
<td>Parents/Guardians' Signature(s): _____________</td>
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</tr>
<tr>
<td></td>
<td>P.E.</td>
<td>1/2</td>
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</tr>
<tr>
<td></td>
<td>Electives or Fine/Practical Art Requirements</td>
<td>2</td>
<td></td>
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<td>Advisor's Signature(s): _____________</td>
<td></td>
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<tr>
<td>10</td>
<td>Language Arts</td>
<td>1</td>
<td></td>
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<td>10th Grade Review</td>
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<tr>
<td></td>
<td>Social Studies</td>
<td>1</td>
<td></td>
<td></td>
<td>Dates: _____________</td>
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<tr>
<td></td>
<td>Mathematics</td>
<td>1</td>
<td></td>
<td></td>
<td>Student's Signature(s): _____________</td>
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</tr>
<tr>
<td></td>
<td>Science</td>
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<td></td>
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<tr>
<td></td>
<td>Personal Finance</td>
<td>1/2</td>
<td></td>
<td></td>
<td>Parents/Guardians' Signature(s): _____________</td>
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<tr>
<td></td>
<td>Fine/Practical Art</td>
<td>1</td>
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<tr>
<td></td>
<td>P.E.</td>
<td>1/2</td>
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<td></td>
<td>Advisor's Signature(s): _____________</td>
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</tr>
<tr>
<td></td>
<td>Electives</td>
<td>3</td>
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<td>11</td>
<td>Language Arts</td>
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<td></td>
<td>11th Grade Review</td>
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</tr>
<tr>
<td></td>
<td>Social Studies</td>
<td>1</td>
<td></td>
<td></td>
<td>Dates: _____________</td>
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</tr>
<tr>
<td></td>
<td>Mathematics</td>
<td>1</td>
<td></td>
<td></td>
<td>Student's Signature(s): _____________</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Science</td>
<td>1</td>
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<tr>
<td></td>
<td>Electives</td>
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<td>Parents/Guardians' Signature(s): _____________</td>
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<td>Advisor's Signature(s): _____________</td>
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<tr>
<td>12</td>
<td>Language Arts</td>
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<td>12th Grade Review</td>
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<tr>
<td></td>
<td>Mathematics</td>
<td>1</td>
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<td>Dates: _____________</td>
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</tr>
<tr>
<td></td>
<td>Electives</td>
<td>6</td>
<td></td>
<td></td>
<td>Student's Signature(s): _____________</td>
<td></td>
</tr>
</tbody>
</table>

**Select a Career Path**
- **9th Grade Review**
  - Dates: _____________ ___________
  - Student's Signature(s): _____________ ___________
  - Parents/Guardians' Signature(s): _____________ ___________
  - Advisor's Signature(s): _____________ ___________

**Career Cluster**
- **Select:**
  - **FALSE**

**Goal**
- **A+ Program**
- **Career and Technical Ed Certificate**
- **Honor Diploma**
- **Industry Recognized Credential**
- **Missouri Seal of Biliteracy**
- **NCAA Eligibility**
- **Accelerated Pathway**
- **Technical Skill Attainment**

**Postsecondary Goals**
- **Directly to workforce**

**Postsecondary Options:**
- **Military**
- **Tech School/Area Career Center**
- **Vocational Training (Apprenticeship)**
- **2 year College**
- **transfer to 4 year college**
- **lead to workforce**
- **4 Year College or University**
- **Other:**
### Learning Opportunities

<table>
<thead>
<tr>
<th>Educational/Career Goals</th>
<th>Work-Related Experiences</th>
<th>Extracurricular Activities</th>
<th>Co-curricular Activities</th>
<th>Assessments/Inventories/Academic Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Short-Term:</strong></td>
<td>Apprenticeship</td>
<td>List with number of years involved and any positions held. Examples but not limited to: Athletics, Clubs, Leadership, Student Council.</td>
<td>List with number of years involved and any positions held. Example but not limited to: CTSO, Debate, Drama, Marching Band.</td>
<td>MO Connection Interest Inventory</td>
</tr>
<tr>
<td></td>
<td>Career Research</td>
<td></td>
<td></td>
<td>ACT:</td>
</tr>
<tr>
<td></td>
<td>Cooperative Education</td>
<td></td>
<td></td>
<td>ASVAB:</td>
</tr>
<tr>
<td></td>
<td>Employment</td>
<td></td>
<td></td>
<td>PSAT:</td>
</tr>
<tr>
<td></td>
<td>Internship</td>
<td>Job</td>
<td></td>
<td>SAT:</td>
</tr>
<tr>
<td></td>
<td>Shadow</td>
<td></td>
<td></td>
<td>ACT WorkKeys:</td>
</tr>
<tr>
<td></td>
<td>Mentorship</td>
<td></td>
<td></td>
<td>Other:</td>
</tr>
<tr>
<td></td>
<td>Resume/Job Application/Mock Interview</td>
<td></td>
<td></td>
<td>Career Fair/Expo:</td>
</tr>
<tr>
<td></td>
<td>Service Learning Project</td>
<td></td>
<td></td>
<td>FAFSA Workshop/Filed:</td>
</tr>
<tr>
<td></td>
<td>Volunteer</td>
<td></td>
<td></td>
<td>Scholarship Exploration:</td>
</tr>
</tbody>
</table>

| **Long-Term:**           |                            |                            |                           |                                         |

### Postsecondary

#### HSD Minimum Requirements
- American Civics exam
- Missouri Constitution Exam
- U.S. Constitution Exam
- 30 min CPR/First Aid Instruction
- Language Arts – 4 credits
- Mathematics – 4 credits
- Social Studies – 3 credits
- Science – 3 credits
- Fine Art – 1 credit
- Practical Art – 1 credit
- Physical Education - 1 credit
- Health - .5 credit
- Personal Finance - .5 credit
- Electives - 7 credits

Total of 24 credits + meet all graduation requirements

#### College Prep Coursework (AP/Dual Credit/IB)

<table>
<thead>
<tr>
<th>Class Name</th>
<th>Number of Hours</th>
<th>Transferability*</th>
</tr>
</thead>
</table>

#### Postsecondary Applications

<table>
<thead>
<tr>
<th>Institution Name</th>
<th>State</th>
</tr>
</thead>
</table>

Curriculum & Instruction Department - September 14, 2018
Career and Technical Education Certificate Requirements

Name: ______________________
Graduation Year: ________

The student must meet all the requirements as follows:

☐ All Graduation Requirements

☐ CTE Concentrator, three or more credits in sequence in a department-approved career education program defined on the student's ICAP, with Grade Point Average 3.0 on a 4.0 scale

☐ TSA/IRC
   Name of Assessment: ______________________
   Pass/Fail ________________________________
   Date: ___________________________________

☐ Soft Skills/Business Skills Attainment (1 of 3 options)
   ☐ CTSO active participation in junior or senior year
   ☐ Letters of Recommendation
   ☐ Soft Skills/Ethics Assessment

☐ College and Career Readiness Measure
   ☐ ACT: _________________________________
   ☐ ACT WorkKeys: ________________________
   ☐ ASVAB: ______________________________
   ☐ SAT: ________________________________

☐ 50 hours of work-based learning (Registered Apprenticeships, Cooperative Career Education Programs, internships, clinical settings, job shadowing, entrepreneurial experiences, school-based enterprises, structured business/industry field trips, service learning, or other opportunities that provide real-time, authentic work experiences)

☐ 95% attendance or greater for grades 9-12

For more information on the CTE Certificate Criteria visit: https://dese.mo.gov/sites/default/files/cte-certificate-criteria.pdf
ARTS, A/V TECHNOLOGY AND COMMUNICATION

If you are interested in working in this cluster, you have two avenues. One is to be the performer or artist. The other is to work behind the scenes to make the performance or publication happen. As a reporter, actor, or fine artist, you would use your creative talent to ensure that a concert or magazine is successful, you would use computers and sound equipment. The occupations in this cluster allow you to use your creativity, talent, and technical skills.

Programs of Study

- Visual Arts (2D and 3D)
- Graphic Design
- Audio/Visual Technology
- Journalism
- Acting
- Musical Theatre
- Technical Theatre
- Vocal Music
- Orchestra
- Band

Level of education and earnings in Missouri

On the job training: $23,800 - $45,900
Work experience (Certificate): $38,540 - 60,970
Associate Degree: $33,340 - $53,640
Bachelor's Degree: $27,780 - $65,170
Higher education: $32,550 - $102,320

Core Curriculum

English:
Year 1: English 1
Year 2: English 2
Year 3: English 3 or AP Lang. & Comp.
Year 4: College Prep Eng./Speech 1 or AP Lit. & Comp.

Math:
Year 1: Algebra 1 or Geometry
Year 2: Geometry or Algebra 2
Year 3: Algebra 2 or Pre Calculus
Year 4: Statistics or AP Statistics

Science:
Year 1: Physics
Year 2: Chemistry
Year 3: Biology

Social Studies:
Year 1: US History
Year 2: World History
Year 3: Government
**Arts, A/V Technology and Communications**

**Visual Arts 2D:** Visual artists create art to communicate ideas, thoughts, or feelings. You would use a variety of methods such as painting, sculpting, and illustrating. You would create art to satisfy your need for self-expression. Or you might use your artistic skills at corporations; retail stores; and advertising, design, and publishing firms.

**Pathway Courses**

<table>
<thead>
<tr>
<th>Year 1: Computer Applications 1</th>
<th>Related Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Applications 2</td>
<td>Pottery 1 and 2</td>
</tr>
<tr>
<td></td>
<td>Fiber Arts</td>
</tr>
<tr>
<td></td>
<td>Stage Design 1</td>
</tr>
<tr>
<td>Year 2: Art &amp; Design Drawing 1</td>
<td>Stage Design 2</td>
</tr>
<tr>
<td>Year 3: Drawing 2 or Painting 1</td>
<td>AP Art History</td>
</tr>
<tr>
<td>Painting 1 or Painting 2</td>
<td>Introduction to Graphic Design</td>
</tr>
<tr>
<td>Year 4: Advanced Studio Art/Independent Study for Visual Arts or AP Art History</td>
<td>Web Design</td>
</tr>
<tr>
<td></td>
<td>Foreign Language Sequence</td>
</tr>
</tbody>
</table>

**Career Related Activities**

- Art Club
- District Art Shows
- Capstone Portfolio
- Theatre Scene Design
- Float Design
- School Promotion Materials
- National Art Honor Society

**College Majors (examples)**

- Art History
- Art Preservation
- Studio Art
- Fine Arts
- Sculpture

**Workplace Learning Experiences (examples)**

- Internship at local art museum
- Local art apprenticeship

**Careers (examples)**

- Animators and Multimedia Artist
- Art Director
- Cartoonist
- Fashion Designers
- Artists
- Floral Designers
- Graphic Designers
- Industrial Designers
- Set and Exhibit Designers
- Sketch Artists

Curriculum & Instruction Department - September 14, 2018
Visual Arts 3D: Visual artists create art to communicate ideas, thoughts, or feelings. You would use a variety of methods such as painting, sculpting, and illustrating. You would create art to satisfy your need for self-expression. Or you might use your artistic skills at corporations; retail stores; and advertising, design, and publishing firms.

Pathway Courses

Year 1: Computer Applications 1  
Computer Applications 2  
Year 2: Art & Design  
Drawing 1  
Year 3: Pottery I  
Pottery 2  
Year 4: Advanced Studio Art/Independent Study for Visual Arts or AP Art History

Related Electives
- Drawing 2  
- Painting 2  
- Fiber Arts  
- Stage Design 1  
- Stage Design 2  
- AP Art History  
- Introduction to Graphic Design  
- Web Design  
- Foreign Language Sequence

Career Related Activities
- Art Club  
- District Art Shows  
- Capstone Portfolio  
- Theatre Scene Design  
- Float Design  
- School Promotion Materials  
- National Art Honor Society

College Majors (examples)
- Art History  
- Art Preservation  
- Studio Art  
- Fine Arts  
- Sculpture

Workplace Learning Experiences (examples)
- Internship at local art Museum  
- Local art apprenticeship

Careers (examples)
- Animators and Multimedia Artist  
- Art Director  
- Cartoonist  
- Fashion Designers  
- Artists  
- Floral Designers  
- Graphic Designers  
- Industrial Designers  
- Set and Exhibit Designers  
- Sketch Artists
**Graphic Design:** In the Graphic Design pathway, you will focus on two dimensional design to communicate a message through images, words, or graphics. Graphic designers use desktop publishing software and techniques in their practice. As a Graphic Designer, you might work for a computer company, a marketing or advertising company, a theatre company, or a convention center.

### Pathway Courses

**Year 1:** Computer Applications 1
- Computer Applications 2

**Year 2:** Art & Design
- Drawing 1

**Year 3:** Introduction to Graphic Design
- Web Design

**Year 4:** Computer Graphics
- Advanced Studio Art

### Related Electives
- Web Design
- Computer Science Essentials
- Creative Writing
- Drawing 2
- Painting 1 and 2
- Modern Media
- Scholastic Journalism 1, 2, & 3

### Career Related Activities
- Photography
- DECA- Advertising
- Graphic Design
- Web Page Design
- Coding Club

### College Majors (examples)
- Animation, Video Graphics, and Special Effects
- Computer Graphics
- Computer Programming
- Computer Science
- Marketing
- Advertising
- Game and Interactive Media Design
- Project Management
- Quality Control Technology

### Workplace Learning Experiences (examples)
- Hazelwood School District Communications Dept. Internship
- Marketing Internship
- Advertising Internship
- Internship at local design firm
- Internship at website developer

### Careers (examples)
- Photographer
- Marketing and Advertising
- Graphic Designer
- Computer Programmer
- Video Game Designers
- Video Game Testers
- Web Designer
Audio/Video Technology: In the Audio/Video Technology and Film pathway, you work with the equipment used in producing sounds and images. You would make sure the equipment is available and working. You might work for hotels, convention centers, schools, movie theatres, and stadiums. Another option is to work for companies that rent or sell sound and video equipment.

Pathway Courses

Year 1: Computer Applications 1
Computer Applications 2

Year 2: Introduction to Theatre
Art and Design

Year 3: Stage Design 1
Modern Media

Year 4: Introduction to Graphic Design
Web Design or Computer Graphics

Related Electives

- Web Design
- Computer Science Essentials
- Creative Writing
- Drawing 2
- Painting 1 and 2
- Modern Media

College Majors (examples)

- Animation, Video Graphics, and Special Effects
- Computer Graphics
- Computer Programming
- Film
- Game and Interactive Media Design
- Project Management
- Quality Control Technology
- Playwriting or Screenwriting
- Photography

Career Related Activities

- Photography
- DECA-Advertising
- Graphic Design
- Web Page Design
- Coding Club

Workplace Learning Experiences

- Hazelwood School District Communications Dept. Internship
- Marketing Internship
- Advertising Internship
- Internship at local design firm
- Internship at website developer

Careers (examples)

- Photographer
- Marketing and Advertising
- Graphic Designer
- Computer Programmer
- Video Game Designers
- Video Game Testers
- Web Designer

Related Electives

- Web Design
- Computer Science Essentials
- Creative Writing
- Drawing 2
- Painting 1 and 2
- Modern Media

College Majors (examples)

- Animation, Video Graphics, and Special Effects
- Computer Graphics
- Computer Programming
- Film
- Game and Interactive Media Design
- Project Management
- Quality Control Technology
- Playwriting or Screenwriting
- Photography

Career Related Activities

- Photography
- DECA-Advertising
- Graphic Design
- Web Page Design
- Coding Club

Workplace Learning Experiences

- Hazelwood School District Communications Dept. Internship
- Marketing Internship
- Advertising Internship
- Internship at local design firm
- Internship at website developer

Careers (examples)

- Photographer
- Marketing and Advertising
- Graphic Designer
- Computer Programmer
- Video Game Designers
- Video Game Testers
- Web Designer
**Journalism**

In the Journalism pathway, you would make sure that radio and television programs and movies reach the public. You could prepare the content and make broadcasts. During the show, you could record or transmit the program. In addition, you could be involved with the publication of newspapers and magazines. As a writer or photographer, you would produce the stories or articles. As an editor, you would plan the content and assign the work.

### Pathway Courses

| Year 1 | Year 2: Scholastic Journalism 1  
Modern Media |
|--------|---------------------------------|
| Year 3: Scholastic Journalism 2  
Speech 1 | Year 4: Scholastic Journalism 3 |

### Related Electives

- Speech 2
- Reading and Writing Workshop
- Creative Writing
- Acting 1 & 2
- Introduction to Theatre
- Foreign Language Sequence

### Career Related Activities

- Yearbook
- Newspaper
- Photography
- School Twitter/Instagram/Youtube
- Creative Writing
- Drama Club/ Play Productions

### Workplace Learning Experiences

- Hazelwood School District Communications Dept. Internship
- Internship with local newspaper
- Internship with local TV station
- Internship with local radio station
- Internet Blogs

### College Majors (examples)

- Journalism
- Small Press Publishing
- Creative Writing
- Broadcasting
- Film

### Careers (examples)

- Announcers
- Audio-Visual Specialist
- Broadcast Technician
- Camera Operator
- Editors
- Film and Video Editor
- News Reporter
- Photographer
- Professional Blogger/Podcaster
- Sound Engineering Technician
- Technical Writer
- Writer
Arts, A/V Technology and Communications

**Acting:** As a worker in the Acting pathway, you might be a performer or responsible for putting on plays and concerts. You could coordinate all the activities associated with putting on a concert or play. Or you might represent the actors or musicians to help them find jobs. Another option is to put on the live entertainment.

**Pathway Courses**

| Year 1: Introduction to Theatre/Acting 1 |
| Year 2: Acting 2/Stage Movement |
| Year 3: Stage Design 1 |
| Stage Design 2 |
| Year 4: Honors Theatre Practicum |
| Independent Study for Theater |

**Related Electives**

- Speech I and II
- Popular Music
- Choir
- Music Theory
- Band
- Orchestra
- Creative Writing
- Foreign Language Sequence

**Career Related Activities**

- Drama Club
- Step Team
- Band
- Orchestra
- Choir
- Missouri State Thespian Conference
- Thespian Club

**College Majors (examples)**

- Art Administration
- Broadcasting Journalism
- Business Management and Administration
- Communication and Speech Studies
- Dance
- Directing Theater Production
- Dramatic Arts
- Fashion Design
- Film Studies
- Marketing
- Public Relations
- Music Composition and Theory
- Music
- Theatre Education

**Workplace Learning Experiences**

- Theatre company internships
- Play production/participation

**Careers (examples)**

- Actor
- Agent or Business Manager
- Announcer
- Choreographer
- Costume and Wardrobe Specialist
- Dancer
- Music Composer, Director, or Arranger
- Musician
- Producer or Director
- Professional Makeup Artist
- Singer
- Theatre Educator
Musical Theatre: As a worker in the Musical theatre pathway, you might be a performer or responsible for putting on plays and concerts. You could coordinate all the activities associated with putting on a concert or play. Or you might represent the actors or musicians to help them find jobs. Another option is to put on the live entertainment.

### Pathway Courses

<table>
<thead>
<tr>
<th>Year 1: Choir (all four years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 2: Intro to Theatre/Acting 1</td>
</tr>
<tr>
<td>Year 3: Acting 2</td>
</tr>
<tr>
<td>Stage Movement</td>
</tr>
<tr>
<td>Year 4: Honors Theatre Practicum</td>
</tr>
<tr>
<td>Independent Study for Theater</td>
</tr>
</tbody>
</table>

### Related Electives

- Speech 1 and 2
- Stage Design 1 and 2
- Popular Music
- Music Theory
- Band
- Orchestra
- Creative Writing
- Foreign Language Sequence

### Career Related Activities

- Drama Club
- Step Team
- Band
- Orchestra
- Choir
- Missouri State Thespian Conference

### College Majors (examples)

- Art Administration
- Broadcasting Journalism
- Business Management and Administration
- Communication and Speech Studies
- Dance
- Directing Theater Production
- Dramatic Arts
- Fashion Design
- Film Studies
- Marketing
- Public Relations
- Music Composition and Theory
- Music
- Theatre Education

### Workplace Learning Experiences

- Theatre company internships
- Musical production/participation

### Careers (examples)

- Actor
- Agents or Business Manager
- Announcer
- Choreographer
- Costume and Wardrobe Specialist
- Dancer
- Music Composer, Director, or Arranger
- Musician
- Producer or Director
- Professional Makeup Artist
- Singer
- Theatre Educator
Arts, A/V Technology and Communications

Technical Theatre: As a worker in the Technical Theatre pathway, you might work behind the scenes or be responsible for putting on plays and concerts. You could coordinate all the activities associated with putting on a concert or play. Or you might represent the actors or musicians to help them find jobs. Another option is to put on the live entertainment.

Pathway Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>Course Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Intro to Theatre/Acting 1</td>
</tr>
<tr>
<td>Year 2</td>
<td>Stage Design 1/Woods and Construction or Apparel and Textiles</td>
</tr>
<tr>
<td>Year 3</td>
<td>Stage Design 2/Metal Technology or Adv. Apparel and Textiles</td>
</tr>
<tr>
<td>Year 4</td>
<td>Honors Theatre Practicum Independent Study for Theater</td>
</tr>
</tbody>
</table>

Related Electives

- Introduction to Engineering Design
- Advanced Woods
- Fashion Construction and Design
- Business Management
- Marketing Fundamentals
- Computer Apps 1 and 2
- Metal Technology

Career Related Activities

- Drama Club
- Art Club
- Missouri State Thespian Conference
- Theatre Set Building
- Theatre Scene Design
- Theatre Stage Management
- Theatre Lighting or Sound Design
- Costume Design

College Majors (examples)

- Art Administration
- Technical Theatre
- Business Management and Administration
- Communication and Speech Studies
- Directing Theater Production
- Dramatic Arts
- Fashion Design
- Film Studies
- Marketing
- Public Relations
- Theatre Education

Workplace Learning Experiences

- Theatre company internships
- Play production/participation

Careers (examples)

- Set Designer
- Lighting Designer
- Sound Designer
- Stage Manager
- Costume Designer
- Set Construction Worker
- Agent or Business Manager
- Costume and Wardrobe Specialist
- Producer or Director
- Professional Makeup Artist
- Theatre Educator
Vocal Music: As a worker in the Vocal Music pathway, you might be a performer or responsible for putting on concerts. You could coordinate all the activities associated with putting on a concert. Or you might represent musicians to help them find jobs. Another option is to put on the live entertainment.

### Pathway Courses

<table>
<thead>
<tr>
<th>Year 1: Mixed Choir, Girls/Boys Choir or Concert Choir*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 2: Popular Music in American History</td>
</tr>
<tr>
<td>Year 3: Music Theory 1/ Music Theory 2</td>
</tr>
<tr>
<td>Year 4: AP Music Theory</td>
</tr>
</tbody>
</table>

*Students should participate in a Choir class all four years.

### Related Electives

- Speech 1 and 2
- Introduction to Theatre
- Acting 1 and 2
- Stage Movement
- Concert or Symphonic Band/Concert or Symphonic Orchestra
- Marketing Fundamentals
- Foreign Language Sequence

### Career Related Activities

- Drama Club
- Step Team
- Band
- Orchestra
- Choir
- Missouri State Thespian Conference
- Solo Ensemble Festival
- Choir Performances

### College Majors (examples)

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

### Workplace Learning Experiences

- Music related internships
- Choir performances
- Solo performances
- Musical Theatre participation

### Careers (examples)

- Composer
- Conductor
- Musician
- Music Instructor
- Music Management
- Performer
- Music Educator
- Sound Designer
Orchestra: As a worker in the Orchestra pathway, you might be a performer or responsible for putting on concerts. You could coordinate all the activities associated with putting on a concert. Or you might represent musicians to help them find jobs. Another option is to put on the live entertainment.

Pathway Courses

Year 1: Concert Orchestra or Symphonic Orchestra*
Year 2: Popular Music in American History
Year 3: Music Theory 1 / Music Theory 2
Year 4: AP Music Theory

*Students should participate in an Orchestra class all four years.

Related Electives
- Speech 1 and 2
- Introduction to Theatre
- Acting 1 and 2
- Stage Movement
- Mixed Choir
- Boys/Girls Choir
- Concert Choir
- Marketing Fundamentals

Career Related Activities
- Drama Club
- Band
- Orchestra
- Choir
- Musical Orchestra Pit
- Solo/Ensemble Festival

College Majors (examples)
- Conducting
- Instrumental Performance
- Jazz
- Music
- Music Composition
- Music Education
- Music Therapy
- Music Theory

Workplace Learning Experiences
- Music related internships
- Orchestra performances
- Solo performances
- Musical Orchestra Pit

Careers (examples)
- Composer
- Conductor
- Musician
- Music Instructor
- Music Management
- Performer
- Music Educator
- Sound Designer
**Band:** As a worker in the Band pathway, you might be a performer or responsible for putting on concerts. You could coordinate all the activities associated with putting on a concert. Or you might represent the musicians to help them find jobs. Another option is to put on the live entertainment.

**Pathway Courses**
- Year 1: Concert Band or Symphonic Band*
- Year 2: Popular Music in American History
- Year 3: Music Theory 1/ Music Theory 2
- Year 4: AP Music Theory

*Students should participate in a Band class all four years.

**Related Electives**
- Speech 1 and 2
- Introduction to Theatre
- Acting 1 and 2
- Stage Movement
- Mixed Choir
- Boys/Girls Choir
- Concert Choir
- Marketing Fundamentals

**Career Related Activities**
- Drama Club
- Band
- Orchestra
- Choir
- Musical Orchestra Pit
- Solo/Ensemble Festival

**College Majors (examples)**
- Conducting
- Instrumental Performance
- Jazz
- Music
- Music Composition
- Music Education
- Music Therapy
- Music Theory

**Workplace Learning Experiences**
- Music related internships
- Band performances
- Solo performances
- Musical Orchestra Pit

**Careers (examples)**
- Composer
- Conductor
- Musician
- Music Instructor
- Music Management
- Performer
- Performing Arts Educator
- Sound Designer
BUSINESS, MANAGEMENT, AND TECHNOLOGY

If you are interested in the Business Management and Administration cluster, there are many career options. You may provide the needed support to keep a business in operation. Or you might keep track of the expenses and income. You could manage the financial activities of a business. Another option is to be sure that a business has qualified employees who are trained to do their jobs. Or after years of education or experience, you might direct the operations of a business.

Programs of Study
- Business Management Administration
- Finance
- Information Technology
- Marketing, Sales and Service

Level of education and earnings in Missouri
On the job training: $25,000 - $42,960
Work experience: $42,210 - $48,720
Associate Degree: $40,330 - $44,050
Bachelor's Degree: $47,810 - $64,720
Higher education: $140,160

Core Curriculum

English:
Year 1: English 1
Year 2: English 2
Year 3: English 3 or AP Language and Composition
Year 4: College Prep English/Speech 1 or AP Literature and Composition

Math:
Year 1: Algebra 1 or Geometry
Year 2: Geometry or Algebra 2
Year 3: Algebra 2 or Precalculus
Year 4: Statistics or Calculus or AP Statistics or AP Calculus

Science:
Year 1: Physics
Year 2: Chemistry
Year 3: Biology

Social Studies:
Year 1: US History
Year 2: World History
Year 3: Government or AP Government
Business, Management & Technology

Business Management Administration: If you were to work in the Administrative Support pathway, you would manage the activities of an office. You would use computers to perform clerical activities. One of your goals would be to ensure that information is collected and shared with staff and clients.

### Pathway Courses

| Year 1: | Computer Business Apps 1  
|        | Computer Business Apps 2 |
| Year 2: | Accounting 1  
|        | Business Law |
| Year 3: | Accounting 2  
|        | Business Management & Leadership  
|        | Marketing Fundamentals |
| Year 4: | Business Technology  
|        | Business Technology Internship |

### Related Electives
- Personal Finance
- Statistics
- Economics
- Speech 1 & 2

### Career Related Activities
- Future Business Leaders of America (FBLA)

### College Majors (examples)
- Accounting Technology and Bookkeeping
- Computer Science
- Data Entry and Processing
- Information Technology
- Office Support

### Workplace Learning Experiences (examples)
- District Internships
- Assist in school front offices
- Assist in school libraries
- Assist in various other departments within the district as approved by Board of Education
- Receptionist
- Administrative Assistant

### Careers (examples)
- Accountants and Auditors
- Audio-Visual Specialist
- Billing Clerks
- Broadcast Technicians
- Brokerage Clerks
- Court Clerks
- Insurance Policy and Claims Clerk
- Loan Clerk
- Payroll and Timekeeping Clerk
- Tax Prepares
Business, Management & Technology

**Finance:** In the occupations in the Finance cluster, you would keep track of money. You might provide financial services to a business or individual. Your work could include maintaining records or giving advice to business executives on how to operate their business. You could work in financial planning, banking, or insurance.

**Pathway Courses**

**Year 1:**
- Computer Business Applications 1
- Computer Business Applications 2
- Business and Personal Law

**Year 2:**
- Accounting 1
- Business Management & Leadership
- Marketing Fundamentals

**Year 3:**
- Accounting 2
- Business Management & Leadership
- Marketing Fundamentals

**Year 4:**
- Business Technology
- Business Technology
- Internship

**Related Electives**

- Statistics
- Personal Finance
- Foreign Language Sequence

**Career Related Activities**

- Future Business Leaders of America (FBLA)
- Distributive Education Clubs of America (DECA)

**Workplace Learning Experiences (examples)**

- District Accounting Internships
- Accounting Firm
- Insurance Office
- Tax Preparation Office
- Title Company

**College Majors (examples)**

- Accounting
- Finance
- Business, Managerial Economics
- Insurance and Risk Management
- Actuarial Science
- International Business

**Careers (examples)**

- Accountant/ Auditor
- Financial Advisor
- Tax Preparer
- Insurance Agent
- Loan Officer
- Financial Counselor
- Insurance Underwriter
- Bank Teller
**Information Technology**

Information Technology (IT) is an area that is growing and always changing with new developments. In IT, you would be part of a cluster that continues to make an impact on society and individuals. You would have the opportunity to work in all types and sizes of businesses from Microsoft to your local hospital. Employees in Information Technology work with computer hardware, software, multimedia, and network systems. In this cluster, you might design new computer equipment or computer games. Or you might make sure that the software or networks are working. In addition, you might have to make sure that people know how to use them. Or you might manage whole networks that link workers in all parts of the world.

**Pathway Courses**

| Year 1: | Computer Business Apps 1 |
|        | Computer Business Apps 2 |
| Year 2: | Accounting 1 |
|         | Business and Personal Law |
| Year 3: | Marketing Fundamentals |
|         | Business Management & Leadership |
| Year 4: | Business Technology |
|         | Business Technology Internship |

**Related Electives**

- Computer Science Essentials
- Computer Science Principles
- Statistics
- Economics
- Personal Finance

**Career Related Activities**

- Future Business Leaders of America (FBLA)
- Technology Student Association (TSA)

**Careers (examples)**

- Network Systems
- Information Supports & Services
- Interactive Media
- Computer Engineer
- Web Developer
- Database Administrator
- Computer Programmer

**Workplace Learning Experiences (examples)**

- Hazelwood School District Technology Department Internship
- Web Development Company

**College Majors (examples)**

- Computer Information Systems
- Computer Programming
- Computer Networking
- Interactive Digital Media
- Management Information Systems
- Cyber-Security
If you are interested in working in the Marketing cluster, you would help businesses sell products. You might advertise and promote products so customers would want to buy them. You might sell products and services directly to customers. Or you might use the Internet to reach customers.

### Pathway Courses

- **Year 1:** Computer Business Applications 1  
  - Computer Business Applications 2
- **Year 2:** Accounting 1  
  - Business and Personal Law
- **Year 3:** Accounting 2  
  - Business Management & Leadership  
  - Marketing Fundamentals
- **Year 4:** Advanced Marketing 1  
  - Advanced Marketing 2  
  - Marketing Internship

### Related Electives

- Personal Finance  
- Statistics  
- Economics  
- Speech 1 & 2  
- General Psychology  
- Foreign Language Sequence

### Career Related Activities

- Distributive Education Clubs of America (DECA)

### Workplace Learning Experiences (examples)

- Marketing Firm  
- Advertising Agency  
- Newspaper/Magazine Company  
- District Internships  
- Realtor Group

### College Majors (examples)

- Commercial and Advertising Art  
- Entrepreneurial and Small Business Operations  
- Fashion Merchandising  
- Graphic Design  
- Marketing  
- Marketing Research  
- Public Relations  
- Real Estate

### Careers (examples)

- Advertising Manager  
- Buyers and Purchasing Agents  
- Marketing Managers  
- Property and Real Estate Managers  
- Sales Manager  
- Sales Representatives  
- Telemarketers
HEALTH SERVICES

In the Health Science cluster you would promote health and wellness or diagnose and treat injuries and disease. You could work directly with people. Or you could work in laboratories to get information used in research or diagnosis. Health service employees go to work at a variety of different sites. Some work in hospitals, offices, or laboratories. Others work on cruise ships, at sports arenas, or within communities.

Programs of Study

- Health Science

Level of education and earnings in Missouri

On the job training: $21,580 - $35,530  
Work experience: $29,250 - $45,160  
Associate Degree: $21,710 - $74,350  
Bachelor’s Degree: $39,660 - $160,270  
Higher education: $52,910 - $196,920

Core Curriculum

English:
Year 1: English 1  
Year 2: English 2  
Year 3: English 3 or AP Lang & Comp  
Year 4: AP Lit & Comp

Science:
Year 1: Prin. of Biomedical Sciences  
Year 2: Chemistry  
Year 3: Biology  
Year 4: AP Biology or AP Chemistry

Math:
Year 1: Algebra 1 or Geometry  
Year 2: Geometry or Algebra 2  
Year 3: Algebra 2 or Pre Calculus  
Year 4: Pre Calculus or Calculus or AP Calculus or AP Statistics

Social Studies:
Year 1: US History  
Year 2: World History  
Year 3: Government or AP Government
**Health Services**

**Health Science:** In the Health Science cluster you would promote health and wellness or diagnose and treat injuries and disease. You could work directly with people. Or you could work in laboratories to get information used in research or diagnosis. Health service employees go to work at a variety of different sites. Some work in hospitals, offices, or laboratories. Others work on cruise ships, at sports arenas, or within communities.

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**Pathway Courses**

**Year 1:** Principles of Biomedical Science
**Year 2:** Human Body Systems
**Year 3:** Medical Interventions or Anatomy & Physiology
**Year 4:** Biomedical Innovations or Health Occupations or Anatomy and Physiology

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**Related Electives**
- Anatomy & Physiology
- Child Development
- Advance Child Development
- Family Living
- Experimental Psychology
- AP Psychology
- Personal Fitness
- Lifeguard Training
- Sociology
- Organic Chemistry
- Biochemistry

---

**Career Related Activities**
- Health Occupations Student Association (HOSA)
- STEM Extravaganza

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**College Majors (examples)**
- Health Records Administration
- Medical Coding
- Biological Sciences
- Chemistry
- Veterinary Sciences
- Pharmacy
- Nursing
- Dental Hygiene

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**Workplace Learning Experiences (examples)**
- Health Occupation Clinicals
- Internships with local hospitals

---

**Careers (examples)**
- Athletic Trainer
- Biologist
- Dentist
- Healthcare Administration
- Pharmacist
- Physical Therapy Physician
- Registered Nurse
- Social Work
- Veterinary Science
- Dental Assistant
- Emergency Medical Technician
- Health Information Technology
- Massage Therapy
- Medical Laboratory Technician
- Practical Nurse
- Radiologic Technology
- Surgical Technology
- Funeral Services
- Paramedic
Human Services

In the Human Services cluster, you would work with individuals and families to meet their personal needs.

Programs of Study
- Counseling and Mental Health Services
- Education and Training
- Government and Public Administration
- Restaurant Food & Beverage
- Fashion

Level of education and earnings in Missouri
On the job training: $19,540 - $37,330
Work experience: $22,150 - $39,860
Associate Degree: $40,330 - $58,770
Bachelor’s Degree: $34,200 - $64,720
Higher education: $82,760 - 140,160

Core Curriculum

English:
Year 1: English 1
Year 2: English 2
Year 3: English 3 or AP Lang & Comp
Year 4: AP Lit & Comp

Math:
Year 1: Algebra 1 or Geometry
Year 2: Geometry or Algebra 2
Year 3: Algebra 2 or Pre Calculus
Year 4: Statistics or AP Statistics

Science:
Year 1: Physics
Year 2: Chemistry
Year 3: Biology
Year 4: Anatomy and Physiology

Social Studies:
Year 1: US History
Year 2: World History
Year 3: Government/Sociology/Psychology
Year 4: AP Psychology
Human Services

Counseling and Mental Health Services: In the Counseling and Mental Health Services pathway, you would assist people with their problems. The problems may be related to personal, family, educational, or career issues. You would provide mental health care in hospitals, clinics, schools, or private offices.

Pathway Courses

Year 1: Child Development, Care & Guidance
Year 2: Advanced Child and Human Development
Year 3: General Psychology
Year 4: Experimental Psychology
AP Psychology

Related Electives

- Nutrition and Wellness
- Exploring the Teaching Profession
- Teaching Profession Internship
- Independent Study
- Health Occupations 1
- Health Occupations 2
- Women's Studies
- AP Human Geography
- Justice and Social Issues
- Economics

Career Related Activities

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

Workplace Learning Experiences (examples)

- Internships with local hospitals
- District internships
  - Work in school guidance department
  - Work with school social workers

College Majors (examples)

- Social Work
- Psychology
- Sociology
- Mental and Social Services
- Community Health Services
- Family Counseling
- 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
**Human Services**

**Education and Training:** In the Education and Training cluster, you would have the opportunity to guide and train young people. As a teacher, you could influence young lives. In addition, you could support the work of the classroom teacher as a counselor, librarian, or principal. If you are interested in working with adults, you could provide training to employees in a business. Each of these settings provides you with the chance to help people learn and improve their lives.

**Pathway Courses**

| Year 1: Family Living and Parenthood |
| Year 2: Child Development, Care and Guidance |
| Year 3: Advanced Child and Human Development |
| Year 4: Exploring the Teaching Profession & Teaching Profession Internship |

**Related Electives**

- General Psychology
- Honors General Psychology
- Experimental Psychology
- Honors Experimental Psychology

**Career Related Activities**

- Service Learning
- Student Athletic Trainer
- Student Council
- Student Tutor
- Family Career and Community Leaders of America (FCCLA)

**College Majors (examples)**

- Library Science
- Multicultural/ESL Education
- School Administration
- School Counseling
- Early Childhood Education
- Primary Education
- Secondary Education
- Special Education
- Sport and Fitness Management
- Teaching Content Area

**Workplace Learning Experiences**

- A+ Tutoring
- Community Daycares
- Hazelwood School District Early Childhood Education Centers
- Exploring Teaching Classroom Experiences in Hazelwood School District Elementary Schools
- Exploring Teaching Classroom Experiences in Hazelwood School District Middle Schools

**Careers (examples)**

- Coach
- Education Administrator
- High School/Secondary Teacher
- Librarian
- Multicultural/ESL Teacher
- School Counselor
- Special Education Teacher
- Teacher Assistant
- Vocational Education Teacher
**Human Services**

**Government and Public Administration:** Through the national, state, and local governments, the public can express its will and make our way of life possible. Through government, individuals can act together to accomplish what cannot be done alone. Most of these actions are carried out only by the government. For example, the federal government includes the military for protection. It also includes ambassadors who represent us in foreign countries. It is Congress that passes laws. The Administration carries out and enforces those laws. You would find almost every occupation within the government. However, this Government and Public Administration career cluster focuses on those occupations that are unique.

### Pathway Courses

| Year 1: | US History or Honors History |
| Year 2: | World History or World History |
| Year 3: | Government or AP Government |
| Year 4: | AP Comparative Government |

### Career Related Activities
- Leadership Council
- Speech Team
- Student Council
- Student Tutor

### Workplace Learning Experiences (examples)
- Local city offices
- District internships
  - Work in district School Safety department
- Local newspaper

### Related Electives
- Business & Personal Law
- Law Enforcement (North County Tech)
- Homeland Security & Preparedness (North County Tech)
- Domestic preparedness & Security (North County Tech)
- Foreign Language Sequence

### 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
Human Services

Restaurants, Food, and Beverage: In the Restaurants and Food and Beverage Services pathway, you would make sure that customers received the food and drinks they ordered. You might prepare the food at a large restaurant or a fast-food business. You could take orders and deliver the food, or you could clean up after the customer leaves.

Pathway Courses

<table>
<thead>
<tr>
<th>Year 1: Computer Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 2: Nutrition &amp; Wellness</td>
</tr>
<tr>
<td>Year 3: Culinary Arts 1</td>
</tr>
<tr>
<td>Year 4: Culinary Arts 2</td>
</tr>
</tbody>
</table>

Related Electives

- Business Management & Leadership
- Business Technology
- Child Development, Care & Guidance
- Accounting 1
- Marketing Fundamentals
- Foreign Language Sequence

Career Related Activities

- Family, Career and Community Leaders of America (FCCLA)
- Speech Team

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

Workplace Learning Experiences (examples)

- Ameristar Casino Food and Beverage Department
- Local fast food and fine dining restaurants
- District Internships
  - Work for district Child Nutrition Services Department
- Local catering companies

Careers (examples)

- Baker
- Chef and Head Cook
- Food Service Manager
- Hotel/Resort Manager
- Waiter/Waitress
Human Services

**Fashion:** In the Fashion pathway, you would work in the world of fashion. Whether it is behind the scenes manufacturing clothing and textiles, or working as a fashion designer and creating conceptual ideas for new lines of fashion. The fashion industry also plays a role in costume design for plays, musicals, movies, and television shows.

Pathway Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Apparel and Textiles/Art and Design</td>
</tr>
<tr>
<td>2</td>
<td>Advanced Apparel and Textiles/Drawing 1</td>
</tr>
<tr>
<td>3</td>
<td>Fashion Merchandising/Drawing 2</td>
</tr>
<tr>
<td>4</td>
<td>Fashion Construction and Design/Computer Graphics</td>
</tr>
</tbody>
</table>

Related Electives

- Computer Business Applications 1 and 2
- Introduction to Graphic Design & Multimedia
- Marketing Fundamentals
- Advanced Marketing 1 and 2
- Foreign Language Sequence

Career Related Activities

- Family Career and Community Leaders of America (FCCLA)
- Peer Mentor
- Service Learning
- Student Council
- Student Tutor

Workplace Learning Experiences (examples)

- Local retail stores
- Local apparel printing/embroidery companies

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
Science, Technology, Engineering, & Mathematics

If you choose to work in the Science, Technology, Engineering, and Mathematics cluster, you have several avenues. One avenue is to do scientific research in laboratories or the field. Another option is to be involved in the planning and design of products and systems. The last avenue is to provide support to the scientists, mathematicians, and engineers so they can do their work.

Programs of Study
- Engineering and Technology
- Architecture and Construction
- Computer Science
- Construction and Construction Trades

Level of education and earnings in Missouri
Work experience (Certificate): $42,510 - $46,040
Associate Degree: $33,940 - $86,510
Bachelor’s Degree: $33,940 - $102,220
Higher Education: $30,480 - $114,290

Core Curriculum

English:
Year 1: English 1
Year 2: English 2
Year 3: English 3 or AP Lang & Comp
Year 4: AP Lit & Comp

Science:
Year 1: Physics
Year 2: Chemistry
Year 3: Biology
Year 4: AP Physics/ AP Chemistry

Math:
Year 1: Algebra 1 or Geometry
Year 2: Geometry or Algebra 2
Year 3: Algebra 2 or Pre Calculus
Year 4: Pre Calculus or Calculus or AP Calculus or AP Statistics

Social Studies:
Year 1: US History
Year 2: World History
Year 3: Government or AP Government
Science, Technology, Engineering, & Mathematics

Engineering and Technology: To work in the Engineering and Technology pathway, you would solve problems involving design, development, or production. You would work on projects to evaluate problems and develop and test solutions. You could also provide advice and consultation.

Pathway Courses
- Year 1: PLTW-Introduction to Engineering Design
- Year 2: PLTW-Principles of Engineering
- Year 3: PLTW-Digital Electronics
  - PLTW-Aerospace Engineering
- Year 4: PLTW-Engineering Design & Development

Related Electives
- Woods and Construction
- Advanced Wood and Construction
- Metal Technology

Career Related Activities
- STEM Extravaganza
- Robotics Team
- National Honor Society
- Technology Student Association (TSA)

College Majors (examples)
- Aerospace Engineering
- Mechanical Engineering
- Electrical Engineering
- Aeronautical Engineering
- Nuclear Engineering
- Industrial Engineering

Workplace Learning Experiences (examples)
- Local engineering companies

Careers (examples)
- Aerospace Engineer
- Mechanical Engineer
- Electrical Engineer
- Aeronautical Engineer
- Nuclear Engineer
- Industrial Engineer
Science, Technology, Engineering, & Mathematics

Architecture and Construction: In the Construction pathway, you would design and/or build cities, homes, and highways. You would put up or remodel buildings used for living and work or structures such as highways, streets, bridges, tunnels, and airports.

Pathway Courses
- Year 1: Introduction to Engineering Design
- Year 2: Principles of Engineering
- Year 3: Civil Engineering and Architecture
- Year 4: Engineering Design and Development

Career Related Activities
- STEM Extravaganza
- National Honor Society
- Technology Student Association (TSA)

Related Electives
- Woods and Construction
- Advanced Wood and Construction
- Metal Technology
- Home Maintenance and Repair
- AP Environmental Science

Workplace Learning Experiences
- Local construction companies
- District internships
  - Work in district carpenter’s shop.
  - Work for district maintenance department.

College Majors (examples)
- Civil Engineering
- Construction Management
- Architecture
- Drafting
- Engineering Drafting

Careers (examples)
- Carpenter
- Construction Management
- Architect
- Civil Engineer
- Architectural Engineer
- Structural Engineer
- Drafting
Science, Technology, Engineering, & Mathematics

**Computer Science:** To work in the Computer Science pathway, you would develop essential skills such as problem solving, critical and creative thinking, communication, collaboration, and perseverance while learning and building knowledge in skills in Computer Science such as designing and building apps and cybersecurity.

**Pathway Courses**
- Year 1: PLTW-Computer Science Essentials
- Year 2: PLTW-Computer Science Principles
- Year 3: PLTW-Computer Science A
- Year 4: PLTW-Cybersecurity

**Related Electives**
- Computer Business Apps 1 & 2
- Web Design
- Business Technology

**Career Related Activities**
- STEM Extravaganza
- Robotics Team
- National Honor Society
- Technology Student Association (TSA)

**College Majors (examples)**
- Computer Science
- Information Technology
- Hardware Engineering
- Software Engineering

**Workplace Learning Experiences**
- Local technology companies
- Hazelwood School District Technology Department

**Careers (examples)**
- Computer Programmer
- Hardware/Software Engineer
- Web Developer
- IT Architect
- Web Developer
Science, Technology, Engineering, & Mathematics

Construction and Construction Trades: To work in the Construction pathway, you will be designing, planning, managing, building or maintaining the structures where we live, work and play.

Pathway Courses
Year 1: Introduction to Engineering Design
Year 2: Principles of Engineering
Year 3: Wood Technology/Metal Technology
Year 4: Advanced Wood Technology/Home Repair And Maintenance

Related Electives
- Computer Business Apps 1 & 2
- Art and Design
- Drawing 1 and 2
- North County Tech programs related to interest

Career Related Activities
- STEM Extravaganza
- Robotics Team
- National Honor Society
- Technology Student Association (TSA)

Workplace Learning Experiences
- District internships
  - Work in district carpenter’s shop.
  - Work for district maintenance department.
- Various related unions
  - Contact local unions to determine entrance requirements.

College Majors (examples)
- Construction Management
- Architectural Drafting

Careers (examples)
- Architectural Drafter
- Carpenter
- Electrician
- HVAC
- Painter
- Plumber
- Building Inspector
- Sheet metal worker
Career Pathway Opportunities at North County Technical School
North County Technical School

North County Technical School (Tech) is an option for students who want to pursue a career pathway in which Hazelwood does not offer. Below are some frequently asked questions that will help students who are interested in enrolling there as a part time student or a full time student.

Students will work with North County Technical staff and their Hazelwood School District guidance counselor to ensure the correct enrollment procedures.

FAQ's – Partial Day

**HOW DO I APPLY?**

- Complete an application online at www.northtechnical.org.
- Meet with your school’s admission representative to complete the application process.

**WHO CAN APPLY TO TECH?**

- All students attending St. Louis County high schools can apply to Tech. County residents who are home schooling or attending private schools are also eligible to apply.

**WHEN SHOULD I APPLY?**

- Students can apply for Tech at any time, but use the guidelines below to ensure your application is reviewed in a timely manner.
  - Freshmen who want to attend Tech in the fall of sophomore year
    - Begin applying January of freshman year
  - Sophomores who want to attend Tech in the spring of sophomore year
    - Begin applying at the beginning of sophomore year
  - Sophomores who want to attend Tech in the fall of junior year
    - Begin applying at the beginning of sophomore year
    - Applications accepted all year, but space in programs will fill quickly
  - Juniors who want to attend Tech in the spring of junior year
    - Begin applying at the beginning of junior year
- Acceptance rounds begin in late fall and continue through the school year. It is important to apply early because some programs will fill as early as January. Students are strongly encouraged to apply as soon as they have decided they want to attend Tech.

**WHEN WILL I KNOW IF I AM ACCEPTED?**

- After each acceptance round, North Tech will notify students, parents, and sending school counselors if they were accepted. Eligible applications remain in consideration throughout the school year and will be considered during each round. Applications are accepted in order of rubric score.
If a program fills, all remaining eligible applicants are put on a waiting list. Waiting lists will be consulted every time a vacancy arises. Wait list students will continue to be offered spots throughout the summer and into the first few days of the school year.

**IS THERE A TUITION COST?**
- No, Tech is free for eligible applicants.

**DO I EARN HIGH SCHOOL OR COLLEGE CREDIT?**
- Yes, our Tech majors earn 1.5 high school credits per semester. Most majors offer elective credit, but some also have academic credits incorporated. Both a student’s earned credit and grade are sent to their home high school and are included in their transcript and GPA. Most Tech majors also offer articulated college credit and/or dual college credit opportunities.

**WHERE CAN I GET MORE INFORMATION?**
- Details about all of our programs are available on our website: www.northtechnical.org. Or call 314.989.7600 for additional information.

**FAQ’s – Full Day**

**HOW DO I APPLY?**
- Complete an application online at www.northtechnical.org.
- Meet with your school’s admission representative to complete the application process.

**WHO CAN APPLY TO TECH?**
- All students attending St. Louis County high schools can apply to Tech. County residents who are home schooling or attending private schools are also eligible to apply.
- Students must meet full day requirements in addition to pre-requisites for their chosen program.

**WHAT ARE THE BENEFITS OF ATTENDING NORTH TECH FULL DAY?**
- Fully immerse yourself into your technical program — Full day students have the opportunity to spend extra time in their CTE program during advisory period each day. It is also common for academic teachers to collaborate with CTE teachers to create lessons that are relevant for students and their career goals.
- Small class sizes — North Tech keeps full day classes small, allowing you to pursue a more rigorous curriculum with tremendous support from your teachers.
- Student Athletics — Full day students have the exclusive opportunity to join North Tech’s sports teams.
• A diverse and supportive environment — North Tech full day students join us from all over North St. Louis County. We celebrate our diversity and create an environment that welcomes all.

WHEN SHOULD I APPLY?

• Priority for full day consideration will be given to applicants who apply prior to June 1st. Applicants should follow the guidelines listed on the Partial Day FAQ page.

IF I AM ACCEPTED, DO I ONLY ATTEND NORTH TECH?

• Yes, when you are accepted full day at North Tech, we become your high school. You will take both academic classes and your career major class at our school. Additionally, you can choose to participate in our many sports and clubs, school dances, and other events offered exclusively to North Tech full day students.

WHEN WILL I KNOW IF I AM ACCEPTED?

• Students applying for Full Day acceptance can be accepted as a Partial Day student while their application remains in consideration. Please refer to the Partial Day FAQ page for additional information.

IS THERE A TUITION COST?

• No, full day enrollment at Tech is free for eligible applicants.

IS NORTH TECH AN A+ SCHOOL?

• Yes. North Tech is a Missouri A+ school. The A+ Scholarship Program offers students the opportunity to earn money for college attendance at one of many approved community and technical colleges throughout the state.

WHERE CAN I GET MORE INFORMATION?

• Details about all of our programs are available on our website: www.northtechnical.org/full-day or call 314.989.7600 for additional information.
PREREQUISITES

- When applying for North Tech, the following prerequisite chart should be referenced to determine a student’s eligibility. Because acceptance is ongoing during the school year, the entry requirements shift to ensure that applicants remain on track in their core graduation requirements.

### Partial Day Requirements

<table>
<thead>
<tr>
<th>If Applying to be a</th>
<th>At Time of Application Prior to December 15</th>
<th>At Time of Application Prior to May 15</th>
<th>At Time of Enrollment and/or time of Application after May 15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sophomore</td>
<td>Minimum of 3 core (of which .5 must be in English Language Arts)</td>
<td>Minimum of 5 core (of which 1 must be in English Language Arts)</td>
<td>Minimum of 7 core (of which 1.5 must be in English Language Arts)</td>
</tr>
<tr>
<td>Junior</td>
<td>Minimum of 7 core (of which 1.5 must be in English Language Arts)</td>
<td>Minimum of 9.5 core (of which 2 must be in English Language Arts)</td>
<td>Minimum of 11 core (of which 2.5 must be in English Language Arts)</td>
</tr>
</tbody>
</table>

### Full Day Requirements

<table>
<thead>
<tr>
<th>Minimum Required Credits at Time of Application</th>
<th>Current 9th Grade Applicants Entering Full Day Sophomores</th>
<th>Current 10th Grade Applicants Entering Full Day Juniors</th>
<th>Current 11th Grade Applicants Entering Full Day Seniors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Required Credits for Admission</td>
<td>3</td>
<td>9</td>
<td>15</td>
</tr>
<tr>
<td>Required Total Core Credits Earned</td>
<td>6</td>
<td>12</td>
<td>18</td>
</tr>
<tr>
<td>End of Course (EOC) Exam Requirements</td>
<td>3 Core of which 1 is English Language Arts</td>
<td>8 Core of which 1.5 is English Language Arts</td>
<td>11 Core of which 3 is English Language Arts</td>
</tr>
<tr>
<td>Maximum Age</td>
<td>17</td>
<td>19</td>
<td>20</td>
</tr>
</tbody>
</table>

Curriculum & Instruction Department - September 14, 2018
In addition to the minimum prerequisites listed on the previous page, the following requirements must also be met either at the time an application is submitted or at the time of enrollment, depending on the program. If these requirements are not met, progress will be checked after semesters are completed. Applications will remain pending until requirements are satisfied. Please see the individual program pages for details.

<table>
<thead>
<tr>
<th>Program</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISCO</td>
<td>1 credit Algebra</td>
</tr>
<tr>
<td>COSMETOLOGY</td>
<td>12 credits total at start of program</td>
</tr>
<tr>
<td>ELECTRICAL TRADES</td>
<td>1 credit Algebra</td>
</tr>
<tr>
<td>EMT</td>
<td>1 credit Algebra</td>
</tr>
<tr>
<td></td>
<td>1 credit lab based Science</td>
</tr>
<tr>
<td></td>
<td>“C” or higher in previous semester English</td>
</tr>
<tr>
<td></td>
<td>17 credits total at start of program</td>
</tr>
<tr>
<td>FIREFIGHTING</td>
<td>1 credit or concurrent Algebra</td>
</tr>
<tr>
<td></td>
<td>1 credit lab based Science</td>
</tr>
<tr>
<td></td>
<td>“C” or higher in previous semester English</td>
</tr>
<tr>
<td>VETERINARY</td>
<td>1 credit Biology or concurrent enrollment</td>
</tr>
</tbody>
</table>

Prerequisites are subject to change. While students and counselors will be notified of these changes, the most current list will be available on our website at [www.northtechnical.org/programs](http://www.northtechnical.org/programs).
PATHWAY DESCRIPTIONS

Automotive
- **Auto Body**
  - Our Auto Body major focuses on the repair and appearance of the interior and exterior of vehicles. Students learn how to assess, estimate, and repair using modern welding, sanding, masking and painting techniques and the same advanced equipment found in professional auto collision repair companies. Students can earn I-CAR Certification and advanced college credit from State Technical College in Missouri.

- **Automotive Technology**
  - Our Automotive Technology major is driven by the 4 main systems of vehicle operation: brakes, suspension and steering, engine performance, and electrical/electronics. Students will diagnose, service, and repair a wide range of vehicles alongside their ASE certified Master Technician instructor. The classroom includes modern diagnostic equipment which students operate as they work toward multiple ASE Certifications.

- **Diesel Technology**
  - Our Diesel Technology major trains students to analyze and repair the complex electrical, hydraulic, and fuel systems of today’s semi-trucks and heavy construction equipment. Students will troubleshoot, overhaul, and assemble diesel engines using the same equipment and techniques as professional mechanics.

Construction Technology
- **Carpentry**
  - Our Carpentry major helps students build a skill set including framing, estimating, roofing, and interior finishing. Students learn how to read and interpret blueprints and build structures using a wide range of professional power tools and carpentry materials.

- **Construction Innovations**
  - Our Construction Innovations major allows students to customize a year or semester of construction exploration to match their interests. A wide variety of quarter long courses give students a solid foundation of basic knowledge and experience. Students can continue into an Advanced Construction course in their second year.
  - Students choose from: Carpentry, Electrical Trades, General Construction, or Heating, Ventilation, & Air Conditioning

- **Construction Trades**
  - Our Construction Trades major provides students with general skills in carpentry, masonry, plumbing, electricity, and heating and cooling. Projects allow students to take complete construction projects from blueprints to completion.
• **Electrical Trades**  
  o Our Electrical Trades major teaches students how to design, stage, and install commercial and residential electrical wiring for power and telecommunications systems. Skills include blueprint interpretation, layout design, and programming equipment while emphasizing logical thinking.

• **Heating, Ventilation, and Air Conditioning**  
  o Our HVAC major teaches students to design, install, repair and maintain residential and commercial refrigeration, heating and air conditioning systems. Students will learn blueprint reading, electrical schematics, and operational sequence charts as they progress toward certification.

**Information Technology**

• **Cisco Networking Academy**  
  o Our Cisco Networking Academy is an advanced course in which students learn how to design, install and troubleshoot complex computer networks. Students will navigate a variety of projects as they complete Cisco’s curriculum in preparation for their certification exams.

**Human Services**

• **Cosmetology**  
  o Our Cosmetology major offers the same curriculum as a beauty college including all hair, nail, and skincare services. Students learn in a full-service salon along with classroom instruction from licensed Cosmetologists.

• **Hospitality and Hotel Management**  
  o Our Hospitality & Hotel Management major immerses students into this exciting and people-centered career pathway. Students learn about event planning, social media marketing, customer service and sales, banquets and branding from industry professionals who work for one of the largest hotel companies in the world. Opportunities are available to shadow and potentially intern at well-known St. Louis hotels.

• **Firefighting**  
  o Our Firefighting major is an academy level course that allows students to do the bulk of their required Fire Academy hours at the high school level. Using a wide range of firefighting and life-saving equipment, students develop their skills through rigorous mental and physical training.

• **Law Enforcement**  
  o Our Law Enforcement major introduces students to the Police Academy through an array of training exercises, crime scenarios, self-defense and fitness training. Students will learn conflict mediation and resolution, investigation techniques, and be trained in the use of advanced security related training equipment, including vehicles.

• **Emergency Medical Technician**  
  o Our Emergency Medical Technician major brings students into real world emergency scenarios. Students are trained to perform detailed trauma
patient assessments using advanced medical and diagnostic equipment, including ambulances.

- **Veterinary Assistant**
  - Our Veterinary Assistant major explores the science of veterinary medicine including animal care and training, clinical procedures, medical terminology, grooming, and disease prevention. Students interact daily with a wide variety of animals fostered in our facilities, providing their medical care, while learning from certified professionals.

**Manufacturing**

- **Precision Machining**
  - Our Precision Machining major teaches students to invent, design, and manufacture tools and components for a wide range of production needs. Using advanced computer controlled technology, 3D printing, and traditional machining skills, students develop projects designed with MasterCAM software and computer aided design (CAD).

- **Welding**
  - Our Welding major trains students to design, engineer, build, and troubleshoot complex metal fabrication challenges. Through high-level training, competitions, and work ethic, students perfect modern welding processes while earning welding certifications.