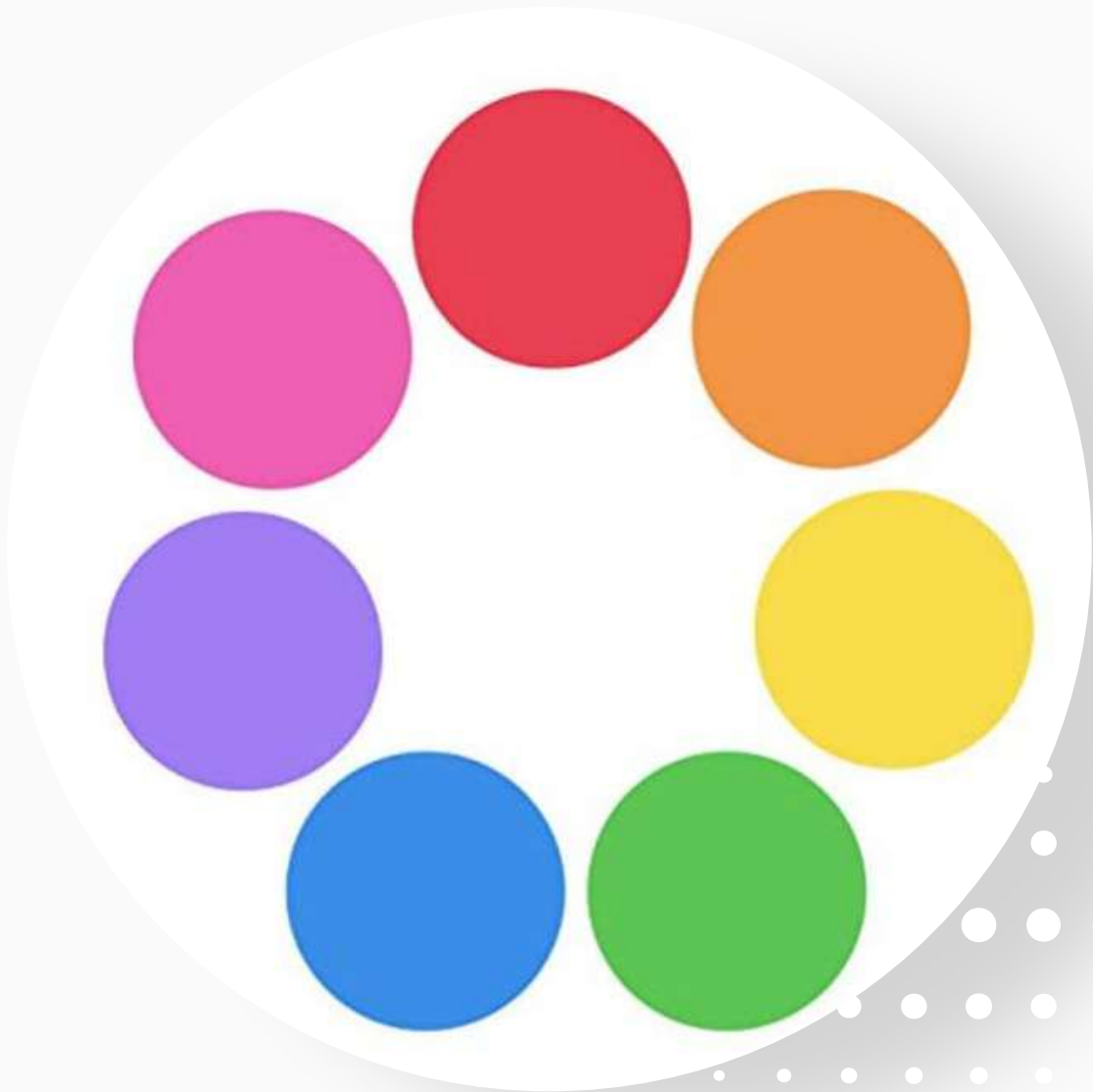


Evanston Township High School

D202



CAREER PATHWAYS

GUIDE

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HOW TO USE THIS GUIDE

ETHS Students and Families:

The ETHS Career Pathways Programs of Study Guide is a resource designed to help students connect their course selection and extracurricular activities to their career interests and plans. The guide utilizes a career pathway framework to outline occupational choices and educational preparation that relate to the various groupings of career fields. The current employment outlook for the United States indicates that most jobs will require postsecondary education and training beyond high school.

Whether a student is preparing to attend a four-year university, a two-year college, the military or the workforce, the exploration of possible pathways is vital. Though many students may continue to change their minds throughout their high school careers about their pathway selections, it is valuable for students to explore multiple areas while still in high school to assist in decisions about where their skills and passions exist.

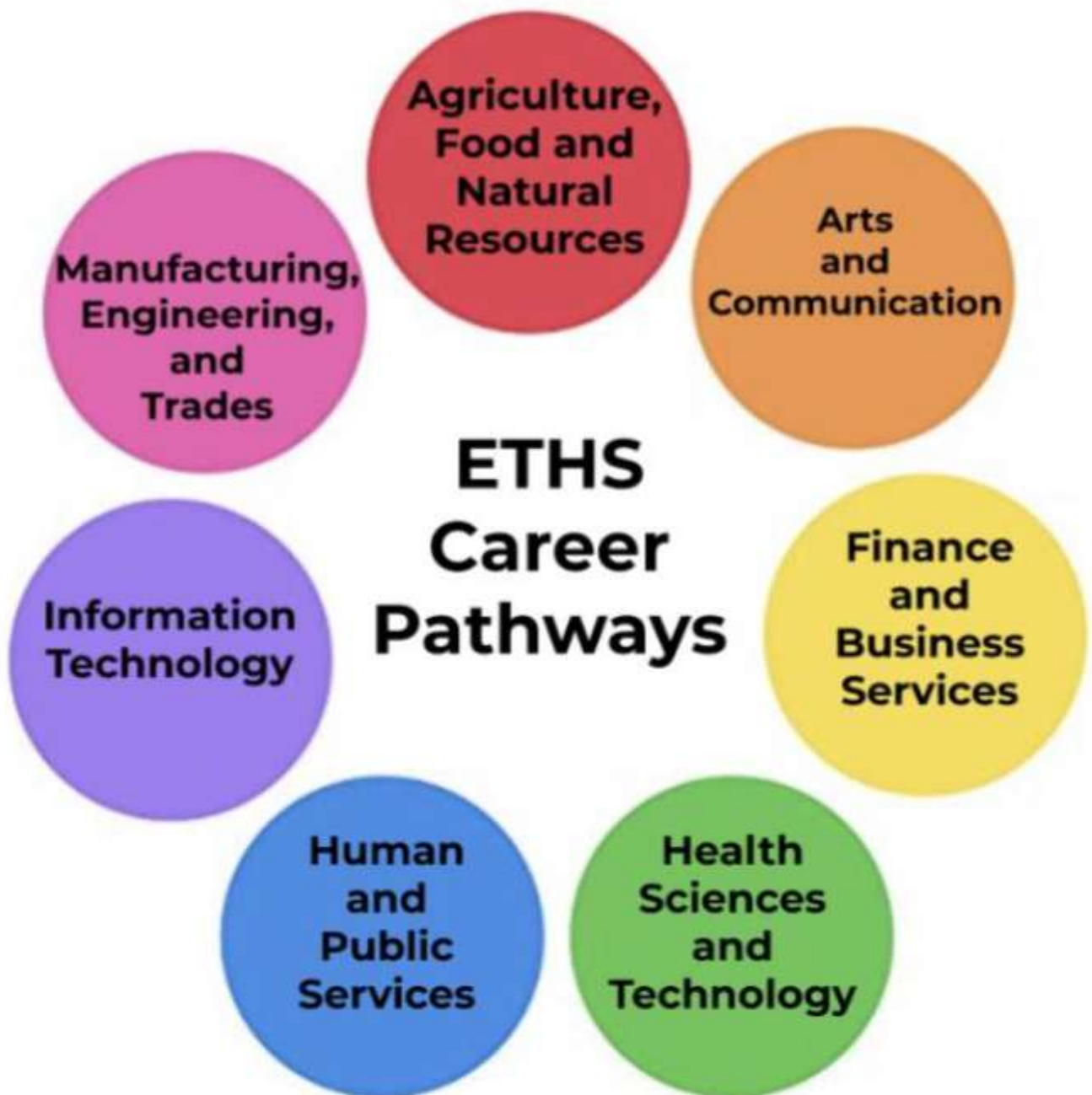
We encourage students and their families to use this guide and the ETHS Course Request Guide to help choose courses and activities offered at ETHS that will allow students to explore and develop their career interests. Course selection should be purposeful and take into account high school graduation requirements, college admission requirements, and career preparation.

If you have any further questions regarding the ETHS Career Pathway Programs of Study Guide, please contact the ETHS Career & Technical Education office, College & Career Services office, or your grade level counselor.

Evanston Township High School

Career Technical Education Department
& Student Services Department





DEFINING CAREER PATHWAYS

	Agriculture, Food and Natural Resources This pathway is about using your love of science, the environment or animals to prepare for careers that involve improving the quality and safety of food, cultivating and preserving our natural resources, and caring for animals.
	Arts and Communication This pathway focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.
	Finance and Business Services This pathway aims to build student skills in communications, information systems/technology, digital literacy, financial procedures, economics, entrepreneurship, international business, principles of management and law, interpersonal and leadership skills, career development, marketing, and more.
	Health Sciences and Technology This pathway is focused on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.
	Human and Public Services This pathway prepares individuals for jobs related to the needs of individuals, groups, and society, leading to career opportunities in education and training, government and public administration, law, public safety, corrections, and security and human services, along with personal care services.
	Information Technology This pathway aims to build student skills in communications, information systems technology, digital literacy, entrepreneurship, interpersonal/leadership skills, career development, computer concepts/programming/networking, web page/media development, and more.
	Manufacturing, Engineering and Trades This pathway includes career paths that use your hands and your mind to invent, construct, or repair cars, machines, buildings, and more.

CAREER PATHWAY MAP

Step 1	Step 2	Step 3	Step 4
<i>Explore Career Pathways</i>	<i>Explore Courses</i>	<i>Explore Careers</i>	<i>Post High School Options</i>
• Agriculture, Food and Natural Resources • Arts and Communication • Finance and Business Services • Health Sciences and Technology • Human and Public Services • Information Technology • Manufacturing, Engineering, and Trades		Participate in Career Exploration and Post Secondary Options and Opportunities • Career Assessments • Field Trips • College Visits • Military Visits • Career Options Night • Career Pathway Speakers • Job Shadow Days • Internships • Workplace Tours • Summer Enrichment Programs • Youth Job Center Events • College Fairs • Job Fairs	• Apprenticeship • Trade/Vocational School • Transition Services for students with IEPs • 2-year Community College • 4-year College or University • Full Time Work • Military • Gap Year Program
Levels of Education	Doctoral Degree (i.e. PHD, MD, DDS, JD...)		
	Master's Degree		
	Bachelor's Degree		
	Associates Degree, Certification, Technical, Vocational, Military		
	High School Diploma/GED		

PLANNING YOUR WILDKIT FUTURE



The current employment outlook for the United States indicates that most jobs will require postsecondary education and training beyond high school.

Whether an ETHS student is preparing to attend a four-year college or university, a two-year college, trade school, the military, apprenticeship or the workforce, the exploration of possible career pathways is vital. Though many high school students may continue to change their minds about their career pathway interests, it is valuable for students to explore multiple areas while still in high school to assist in decisions about where their skills and passions exist.

ETHS students must plan their courses carefully with the assistance from their caregivers and their high school counselor. Long-term preparation begins when students first think about their four-year high school plan. As they progress toward narrowing and clarifying their choices, they must evaluate their own achievement record and check to be sure that they have up-to-date information on the programs that interest them.

The ETHS Student Services team will assist all of our students in exploring career pathways to maximize their experience and development of their ICAP (Individual Career and Academic Plan). For more information about ICAPS visit <https://www.eths.k12.il.us/Page/855>.

For more information about the Illinois PaCE Postsecondary and Career Expectations visit <https://www.isac.org/pace/documents/pace-framework.pdf>

7 ETHS CAREER PATHWAYS

- **Agriculture, Food and Natural Resources**
- **Arts and Communication**
- **Finance and Business Services**
- **Health Sciences and Technology**
- **Human and Public Services**
- **Information Technology**
- **Manufacturing, Engineering and Trades**

There are 16 National Career Clusters. ETHS thoughtfully combined clusters to make 7 Career Pathways to explore. The following examples of ETHS four-year high school plans are career pathway frameworks for discussion with your ETHS counselor. Students may follow a career pathway framework example like the courses below, or select different coursework with the guidance of their ETHS counselor.

AGRICULTURE, FOOD & NATURAL RESOURCES



High School Courses			
9th	10th	11th	12th
1 English	2 English	3 English	4 English
1 Algebra	Geometry	2 Algebra	Statistics/Calculus
Biology	Chemistry	Physics	Science Elective
1 Humanities	Civics	US History	Consumer Ed
1PE	2PE/Wellness	PE Elective	PE Elective
CTE/Arts/World Language	CTE/Arts/World Language	Elective	Elective

Explore Elective Courses	
Accounting	Environmental Science
Algebra in Entrepreneurship	Marketing
Business	Psychology
Culinary	Urban Agriculture/Horticulture
Entrepreneurship	Web Design

Related ETHS Clubs and Activities		
Ambassadors	Cooking Club	SHPEjr
Chrome Squad	FCCLA	WiSTEM
Community Service	Math Team	Youth Tech Corp
Cultural Clubs	NSBEjr	*Other <u>Clubs</u> and <u>Athletics</u>

Local Business Partners			
Aramark City of Evanston CISCO Compass USA EcoTech Pest Farmhouse Evanston Firehouse Grill	Gordon Food Services Greater Chicago Food Dep. Greenwise Organic Lawn Hyatt House HR Green KOI Evanston Lettuce Entertain You	Mather Lifeways Niels Johnson Tree Exp. Nature's Perspective NorthShore University Health The Carrington The Talking Farm U.S. Military	Vi at the Glen Village Farmstand Westminster Place Yo Fresh



College Majors or Programs of Study	
Agricultural Science Animal Sciences Baking and Pastry Biotechnology Conservation Biology Culinary Arts Environmental Health Facilities Management Food Science Geology	Hospitality Horticulture Landscape Management Marine Biology Nutrition Oceanography Plant Biology Renewable Energy Veterinary Science Zoology

Careers	
Certification/Associates Degree	Bachelor Degree or Higher
Animal Control Officer Arborist Bio-Tech Lab Technician Botanist Caterer Chef Concierge Conference Planner Conservation Worker Crop & Livestock Farmer Dietetic Technician Environmental Technician Facilities Manager Fish and Game Officer Food Services Supervisor Food Quality Control Specialty Forestry Technician Genetic Technologist Golf Course Manager Greenhouse Manager Hotel Manager Landscape Designer Recycling Technician Restaurant Owner/Manager Veterinary Technician	Agricultural Engineer Animal Husbandry Baker Biochemist Conservation Scientist Ecologist Environmental Engineer Event Planner Fish and Game Warden Forester Geneticist Horticulturist Landscape Architect Livestock Management Marine Biologist Museum Director Park Ranger Plant Pathologist Resort Manager Toxicologist USDA Inspector Veterinarian Wildlife Conservationist Zoologist

Oakton College		
Programs	Certificate/Degrees	Dual Credit*
Cannabis Cultivation	Certificate	
Cannabis Dispensary & Transportation/Warehousing	Certificate	
Facilities Management & Facilities Energy System Technology	Associate in Applied Science (AAS)	
General Studies	AAS - Environmental Science Associate in Science (AS)	

*Check the [ETHS Course Request Guide](#) for the latest Oakton dual credit courses offered.

ARTS & COMMUNICATION



High School Courses			
9th	10th	11th	12th
1 English	2 English	3 English	4 English
1 Algebra	Geometry	2 Algebra	Statistics/Calculus
Biology	Chemistry	Physics	Science Elective
1 Humanities	Civics	US History	Consumer Ed
1PE	2PE/Wellness	PE Elective	PE Elective
CTE/Arts/World Language	CTE/Arts/World Language	Elective	Elective

Explore Elective Courses	
Choir/Music	Marketing
Communication/Journalism	Psychology
Dance	Theatre
Entrepreneurship	Visual Art
Fashion	Web Design

Related ETHS Clubs and Activities		
Ambassadors	Cooking Club	FCCLA
Band/Orchestra	Dance Company	Hair/Beauty Club
Community Service	Debate Team	Theatre/Video Production
Cultural Clubs	Fashion Club	*Other <u>Clubs</u> and <u>Athletics</u>

Local Business Partners			
Block Museum Butcher Boy Studio Chicago Ballet Arts Chicago Humanities Fest Evanston RoundTable Fast Signs	Northlight Theatre Mudlark Theatre Multilingual Connections Skokie Theatre US Military Watts Painting & Decor	WGCO Radio	



College Majors or Programs of Study	
Art/Art History Art Therapy Audio Engineering Communications Computer Graphics Design and Visual Communications Documentary Productions Fashion Design and Merchandising Film, Video, and Photographic Arts Industrial Design Multimedia	Museology Music Performance Music Therapy Museum Studies New Media Public Relations Publishing Photography Sculpture Theatre and Performing Arts Video Game Design

Careers	
Certification/Associates Degree	Bachelor Degree or Higher
Animator/Computer Graphics Artist A/V System Service Technician Broadcast Technician Business Administration Casting Director Dancer Digital Print Production Entrepreneurship Fashion Buyer/Merchandising Graphic Designer Hospitality Management Management Marketing Musician package Design Photographer Printing Press Operator Recording Technician Small Business Management Sound Technician Stage Crew Video Systems Technician Web Design Website Developer	Actor Animator Art Therapist Artist Artistic Director Audio/Visual Designer/Engineer Cinematographer Choreographer Composer Editor Costume Designer Dancer Fashion Designer Graphic Designer Interior Designer Journalist Lighting Designer Media Buyer/Planner Publisher Props Artisan Music Therapist Public Relations Manager Recording Engineer Set and Sound Designer Videographer Web Designer/Website Developer

Oakton College		
Programs	Certificate/Degrees	Dual Credit*
Art and Design	Associate in Fine Arts (AFA)- Art	ART 115
Computer Information Systems	AAS and Certificates	
Graphic Design	AAS and Certificates	ART 115
Performing Arts	Associate in Fine Arts (AFA)	
Technical Communications	Certificate	

*Check the [ETHS Course Request Guide](#) for the latest Oakton dual credit courses offered.

FINANCE & BUSINESS SERVICES



High School Courses			
9th	10th	11th	12th
1 English	2 English	3 English	4 English
1 Algebra	Geometry	2 Algebra	Statistics/Calculus
Biology	Chemistry	Physics	Science Elective
1 Humanities	Civics	US History	Consumer Ed
1PE	2PE/Wellness	PE Elective	PE Elective
CTE/Arts/World Language	CTE/Arts/World Language	Elective	Elective

Explore Elective Courses	
Accounting	Marketing
Business Law	Principles of Debate
Business Management/Info Systems	Programming with JAVA
Computer Science	Psychology
Entrepreneurship	Web Design

Related ETHS Clubs and Activities		
Ambassadors	Cultural Clubs	SOAR
Beauty/Fashion Club	Debate Team	Tech Student Association
Chromezone	FCCLA	YTC
Community Service	Investment Club	*Other <u>Clubs</u> and <u>Athletics</u>

Local Business Partners		
Autobarn Auto Group Bornquist Inc Byline Bank Chris Bailey-Farmers Insurance City of Evanston Craft Jack DMG Mori Evanston Community Bank & Trust	First Northern Credit Union GAP, Inc Koi Evanston Gordon Food Services Hyatt House Insite Commercial Realty Northwestern University Officeheads	Risk Management Solutions Rotary International Evanston Starbucks Coffee Company Target US Military Vector Marketing-Cutco YoFresh Yogurt Cafe



College Majors or Programs of Study	
Accounting Business Administration Business Information Systems Economics Entrepreneurship Finance Financial Planning Human Resources Management Hospitality Management	Insurance International Business/Finance Marketing/Advertising Management Operations Management Public Relations Sports Management Sports Marketing Supply Chain Management

Careers	
Certification/Associates Degree	Bachelor Degree or Higher
Accounting Associate Administrative Assistant Bookkeeper Business Administration Business Management Claim Adjuster Customer Service Representative Entrepreneur Event Planner Human Resource Management Insurance Agent Loan Officer Marketing Associate Real Estate Agent Sales Representative Supply Chain Management Tax Preparer Underwriter Wholesale and Retail Buyer	Accountant/CPA Actuary Advertising Manager Auditor Business Owner Certified Financial Planner Commodities Broker Corporate Trainer Economist Entrepreneur Event Planner Financial Advisor/Analyst Human Resource Director/Manager Insurance Agent International Business Investment Banker Market Research Analyst Marketing Manager Project Manager Public Relations Manager Real Estate Broker Sales Manager Sales Representative Sports Management Sports Marketing Stockbroker

Oakton College		
Programs	Certificate/Degrees	Dual Credit*
Accounting	AAS and Certificates	
Applied Business/Business	AA and Certificates	
Computer Apps for Business	AAS and Certificates	
Financial Services	Certificate	
Global Business Studies	Certificate	
Marketing/Management	AAS and Certificates	

*Check the [ETHS Course Request Guide](#) for the latest Oakton dual credit courses offered.

HEALTH SCIENCE & TECHNOLOGY



High School Courses			
9th	10th	11th	12th
1 English	2 English	3 English	4 English
1 Algebra	Geometry	2 Algebra	Statistics/Calculus
Biology	Chemistry	Physics	Science Elective
1 Humanities	Civics	US History	Consumer Ed
1PE	2PE/Wellness	PE Elective	PE Elective
CTE/Arts/World Language	CTE/Arts/World Language	Elective	Elective

Explore Elective Courses	
Anatomy and Physiology	Health Science Practicum
Child Development	Intro to Health Science Careers
Child Psychology	Personal Finance & Careers in Health Sciences
Culinary	STEM in Sports
Entrepreneurship	Independent Study

Related ETHS Clubs and Activities		
Ambassadors	Cultural Clubs	Green Team
Best Buddies	Debate Team	SOAR
Chromezone	FCCLA	Any STEM related Club
Community Service	Girls Who Code	*Other <u>Clubs</u> and <u>Athletics</u>

Local Business Partners	
AMITA Health Aramark Athletico Back to Basics Erie Family Health Evanston Fire Department In Fine Fettle Holistic Health Mather Lifeway	Northshore Dental Assisting Academy NorthShore University Health System Northwestern University The Carrington at Lincolnwood Trulee Evanston US Military Walgreens Pharmacy Westminster Place



College Majors or Programs of Study		
Any Science Applied Psychology Athletic Training Bioethics Biotechnology Clinical Research Community Health Dentistry Dietetics	Food and Nutrition Genetic Counseling Kinesiology Medicine Molecular Medicine Music Therapy Nursing (RN and BSN) Occupational Therapy Optometry	Orthodontics Pharmacy Psychology Psychiatry Physical Therapy Speech Pathology Sports Medicine Veterinary Medicine

Careers	
Certification/Associates Degree	Bachelor Degree or Higher
Anesthesiologist Assistant Certified Nursing Assistant Clinical Medical Assistant Dental Assistant Dental Hygienist Diagnostic Medical Sonography Dialysis Technician EMT/Paramedic Health Information Technology Home Health Aide Hospital Admitting Clerk Licensed Practical Nurse Massage Therapist Medical Assistant Medical Transcriptionist Occupational Therapy Assistant Pharmacy Technician Phlebotomist Physical Therapy Assistant Radiology Technologist Registered Nurse Respiratory Therapist Surgical Technician Ultrasound Technician/Sonographer Unit Coordinator	Anesthesiologist Athletic Trainer Audiologist Chiropractor Dentist Dietician Epidemiologist Ethicist Exercise Physiologist Geneticist Healthcare Administrator Medical Librarian Music Therapist Nano Scientist Nurse Practitioner Occupational Therapist Optometrist Pharmacist Physician (MD and DO) Physician's Assistant Physical Therapist Psychologist Speech Pathologist Surgeon

Oakton College		
Programs	Certificate/Degrees	Dual Credit*
Biology	AS and AAS	
EMT/Paramedic	Certificates	
Health Information Technology	AAS and Certificates	
Medical Laboratory Technology	AAS	
Nursing	AAS and Certificates	
Medical Assistant, Pharmacy Assistant, Phlebotomist	Certificates	
Physical Therapy Assistant	AAS	

*Check the [ETHS Course Request Guide](#) for the latest Oakton dual credit courses offered.

HUMAN & PUBLIC SERVICES



High School Courses			
9th	10th	11th	12th
1 English	2 English	3 English	4 English
1 Algebra	Geometry	2 Algebra	Statistics/Calculus
Biology	Chemistry	Physics	Science Elective
1 Humanities	Civics	US History	Consumer Ed
1PE	2PE/Wellness	PE Elective	PE Elective
CTE/Arts/World Language	CTE/Arts/World Language	Elective	Elective

Explore Elective Courses	
American Legal System	Introduction to Public Safety
Child Development/Psychology	Principles of Debate
Business Law/Management	Psychology
Economics	US Government and Politics
Entrepreneurship	Web Design

Related ETHS Clubs and Activities		
Ambassadors	Cultural Clubs	SOAR
Beauty/Fashion Club	Debate Team	Student Council
Chromezone	FCCLA	Team ASAP
Community Service	Model UN	*Other <u>Clubs</u> and <u>Athletics</u>

Local Business Partners		
Aveda institute District 65 Evanston Fire Department Evanston Public Library Evanston Police Department Evanston Township High School	iKandi Hair Studio & Academy Illinois Tattoo School Jensen Litigation Solutions Kelley Kronenberg Law Legacy Barber College Multilingual Connections	Rotary International Evanston Superior Ambulance US Military



College Majors or Programs of Study	
American Government Counseling Criminal Justice Science Economics Education Emergency Services Global Studies Humanities International Studies	Journalism Library Science Linguistics Political Science Psychology Public Administration/Policy Public Relations Urban/Regional Planning World Languages

Careers	
Certification/Associates Degree	Bachelor Degree or Higher
911 Operator Bomb Technician Court Reporter Early Childhood Teacher Emergency Medical Technician (EMT) Esthetician Fire Fighter Fire Inspector Home Health Aide Law Enforcement Office Library Technician Massage Therapist Paralegal Assistant Park Ranger Personal Fitness Trainer Police & Patrol Officer Police Canine Trainer Postmaster Sign Language Interpreter Teacher Assistant	Adult Literacy Teacher Alcohol & Drug Abuse Counselor Attorney Aviation Security Specialist Certified Security Planner Counselor Dietician Elementary School Teacher FBI Agent High School Teacher Hospice Worker Immigration Officer Judicial Law Clerk Legislator Librarian Music Therapist Political Scientist Private Detective Probation/Parole Officer Psychiatrist Psychologist Social Worker Speech-Language Pathologist Translator/Interpreter University Professor

Oakton College		
Programs	Certificate/Degrees	Dual Credit*
Early Childhood Education	AAS and Certificates	MAT 125
Fire Science Technology	AAS and Certificates	
General Studies	Associate in General Studies	
Human Services	AAS and Certificate	
Law Enforcement	AAS and Certificate	
Paralegal Studies	AAS and Certificate	

*Check the [ETHS Course Request Guide](#) for the latest Oakton dual credit courses offered.

INFORMATION TECHNOLOGY



High School Courses			
9th	10th	11th	12th
1 English	2 English	3 English	4 English
1 Algebra	Geometry	2 Algebra	Statistics/Calculus
Biology	Chemistry	Physics	Science Elective
1 Humanities	Civics	US History	Consumer Ed
1PE	2PE/Wellness	PE Elective	PE Elective
CTE/Arts/World Language	CTE/Arts/World Language	Elective	Elective

Explore Elective Courses	
Computer Science	Graphic Design
Cybersecurity	Information Technology Internship
Digital Electronics and Arduinos	Introduction to Programming
Entrepreneurship	Principles in Engineering
Game Design/Web Design	Video Production

Related ETHS Clubs and Activities		
All About Games	Cultural Clubs	Math Team
Ambassadors	E-Town Tuners/Auto Club	Robotics Club
Chromezone	Girls Who Code	Any STEM related Club
Community Service	Green Team	*Other <u>Clubs</u> and <u>Athletics</u>

Local Business Partners	
ETHS Chrome Zone Craft Jack Multilingual Connections Northwestern University	NorthShore University Health System US Military Wall Scott Solutions Year Up Chicago



College Majors or Programs of Study	
Architectural Engineering Artificial Intelligence Building Constructor/Management Computer Software Engineer Computer Information Systems Computer Science Computer Systems Technology Construction Engineering Cybersecurity Digital Arts	Drafting/Design Technology Information Systems Information Technology Interactive Media Interior Architecture Mechanical Drafting Networks/Communication System Development Analyst Web App Development Web Computing

Careers	
Certification/Associates Degree	Bachelor Degree or Higher
App Developer Computer Information Systems Computer Programmer Computer Support Specialist Computer Systems Analyst Cybersecurity Technician Database Management Field Service IT Technician Information Systems Technician IT Helpdesk Technician Linux Administrator Microsoft Office Specialist Network Administrator Network Security Analyst Oracle Administrator PC Support Specialist Programmer Analyst Security Analyst Software Development Systems Operator Technical Support Specialist Unix Administrator Web Architect/Designer Website Application Developer Website Support Web Visual Designer	Business Analyst Cloud Security Engineer Computer Programmer Cyber Security Analyst Data Analyst Data Systems Designer Database Administrator Front End Developer Information Technology Engineer iOS Developer IT Project Manager Java Engineer Media Specialist Network Analyst Network Engineer Network Security Engineer Scientific & Medical Illustrator Security Analyst Security Engineer Software Architect Software Engineer Solutions Architect Systems Administrator Systems Engineer Web Developer

Oakton College		
Programs	Certificate/Degrees	Dual Credit*
Computer Information Systems	AAS and Certificates	
Computer Networking Systems	AAS and Certificates	
Computer Science	Associate in Science (AS)	
Electronics & Computer Technology	AAS and Certificates	

*Check the [ETHS Course Request Guide](#) for the latest Oakton dual credit courses offered.

MANUFACTURING, ENGINEERING, TECHNOLOGY AND TRADES



High School Courses			
9th	10th	11th	12th
1 English	2 English	3 English	4 English
1 Algebra	Geometry	2 Algebra	Statistics/Calculus
Biology	Chemistry	Physics	Science Elective
1 Humanities	Civics	US History	Consumer Ed
1PE	2PE/Wellness	PE Elective	PE Elective
CTE/Arts/World Language	CTE/Arts/World Language	Elective	Elective

Explore Elective Courses	
Automotive	Geometry in Construction
Civil Engineering & Architecture	Geometry in Construction
Cybersecurity	Introduction to Engineering Design
Digital Electronics & Arduinos	Manufacturing Technology
Engineering Design & Development	Welding

Related ETHS Clubs and Activities		
All About Games	Cultural Clubs	Math Team
Ambassadors	E-Town Tuners/Auto Club	Robotics Club
Chromezone	Girls Who Code	Any STEM related Club
Community Service	Green Team	*Other <u>Clubs</u> and <u>Athletics</u>

Local Business Partners			
Autobarn Boeing Bornquist, Inc Cahill Plumbing CHICAP Chicago Transit Authority City of Evanston Dream to Product Fast Signs	GF+ Machining Solutions HR Green ICATT IRMCO Kelvin Company Metra NU Women in Trades Pipe Fitters Local 597 Plumbers JAC Local 130	Progressive Truck Driving R.F. Mau Rotary International Evanston Evanston Development Coop Rebuilding Exchange Evanston S & C Electric Company Schultes Precision Manufact. Scott Simpson Builders Spice House	Symbol Training Inst. US Military Visual Comfort Group Watts Painting & Decor



College Majors or Programs of Study		
Aerospace Engineering Air Traffic Controller Architectural Drafting Automotive Engineering Chemical Engineering Civil Engineering Computer Engineering Construction Engineering Electrical Engineering	Energy Management Engineering Physics Engineering Technology Industrial Engineering Manufacturing Technology Mechanical Drafting Mechanical Engineering Nanotechnology Nuclear Engineering	Occupational Safety Technology Plastics Engineering Radiological Engineering Robotics Technology Systems Design Systems Engineering Tool and Die Technology

Careers	
Certification/Associates Degree	Bachelor Degree or Higher
Aerospace Machinist Aircraft Mechanic Air Traffic Controller Architectural Drafter Assembler Automotive Technician/Mechanic Cargo and Freight Agent Carpenter Cartographic Technician Civil Engineering Technician CNC Programmer/Machinist Computer Technician Electrician Electronic Systems Technician Engineering Technician General Contractor/Building Helicopter Pilot HVAC Technician Industrial Machinery Mechanic Manufacturing Technician/Engineer Metrology/Measurement Mold Maker Nanotechnology Technician Pipefitter Plumber Security Consultant Sheet Metal Worker Surveyor Tool & Die Maker Warehouse Manager Welder	Aeronautical/Aerospace Engineer Airline Pilot/Co-Pilot Analytical Chemist Archaeologist Anthropologist Architect Astronaut Astronomer Aviation Biologist Botanist Cartographer Chemist Civil Engineer CNC Applications Engineer Ecologist Environmental Scientist Geologist Health & Safety Engineer Industrial Engineer Industrial Systems Engineer Interior Designer Landscape Architect Manufacturing Engineer Mechanical Engineer Nano Scientist Physicist Plant Manager Product Design Engineer Quality Assurance Inspector Safety Analyst Solar Engineer

Oakton College		
Programs	Certificate/Degrees	Dual Credit*
Automotive Technology	AAS and Certificates	
Engineering	Associate in Science (AS)	
Facilities Management & Engineering	AAS and Certificates	CAD 116, CAD 210
Manufacturing Technology	AAS and Certificates	CAD 116, CAD 210, MFG 111
Mechanical Design/CAD	AAS and Certificates	CAD 116, CAD 210, MFG 111

*Check the [ETHS Course Request Guide](#) for the latest Oakton dual credit courses offered.

**TMA (Technology & Manufacturing Association)**www.tmailnois.org**Apprenticeship Training Courses in Tool & Die, Mold Making, and CNC Programming****First Year Courses**

(42 hours- 14 weekly sessions)

- Industrial Math II
- Industrial Prints
- Industrial Math III
- Machine Tool Technology

Second and Third-Year Courses

(168 hours - 56 sessions)

- 201 Basic Tool & Die
- 310 Advanced Tool & Die
- 202 Basic Mold Making
- 302 Advanced Mold Making
- 203 Basic CNC Programming
- 303 Advanced CNC Programming Programming

Certain courses taken at TMA will transfer to CNC Programs at

- Oakton College
- Harper College

CISCO (Construction Industry Service Corporation)www.cisco.org**Apprenticeship Programs**

Architectural Iron Worker	Boilermaker	Bricklayer	Carpenter
Cement Mason	Ceramic Tile Finisher	Ceramic Tile Layer	Drywall Finisher
Electrician	Electrician Communications	Glazier	Heat and Frost Insulator
Iron Worker	Machinery Mover, Rigger, Erector	Operating Engineer	Operating Engineer Technician
Painter/Decorator	Pipefitter	Plasterer	Plumber
Roofer/Waterproofer	Sheet Metal Worker	Sprinkler System Fitter	Structural Iron Worker
Tuckpointer	For more information, vist https://www.cisco.org/apprenticeship/		

ICATT (Industry Consortium for Advanced Technical Training)**Apprenticeship Programs**

Advanced Manufacturing Technician	CNC Machining Professional
Mechatronics Technician	International Logistics & Freight Forwarding

View local and national companies working with ICATT Apprenticeship Programs at <https://www.icattapprenticeships.com/icatt-network-companies/>

ADDITIONAL RESOURCES

[Career One Stop](#)

[Chicago Cook Workforce Partnership Labor Market Information
Illinois CTE](#)

[Illinois Career Pathways Dictionary](#)

[Illinois Career Cluster Model](#)

[Illinois PACE Post Secondary and Career Expectations](#)

[NSERVE Career Pathways](#)

[National Career Clusters Framework](#)

[Oakton College Areas of Interest](#)

[Oakton College Early College for High School Students \(Dual Credit\)](#)

[Workforce Development in Illinois](#)

[ETHS Career Pathway Google Site](#)

[ETHS Course Request Guide](#)

[ETHS College Application Process](#)

[ETHS College and Career Services](#)

[ETHS CTE Career Programs and Certifications](#)

[ETHS D202 Board Policies & Goals](#)

[ETHS Graduation Requirements](#)

[ETHS ICAPs- Individual Career and Academic Plans](#)

[ETHS Post High School Options \(Infographic\)](#)

[ETHS SASH Career Pathway Curriculum and Videos](#)

[ETHS Student Handbook: The Pilot](#)

[ETHS Summer School](#)

[ETHS School Profile](#)

[ETHS Student Services Department](#)

[ETHS Writing Center](#)

[ETHS Sports and Athletics](#)

[ETHS Clubs and Student Activities](#)

[Advanced Placement \(AP\) TEAM ASAP](#)

[Career Planning Resources](#)

[Military Career Exploration](#)

[NCAA Eligibility Information \(Collegebound Student Athletes\)](#)

[Post Secondary Resources for Students with Disabilities](#)

[Project Lead The Way \(PLTW\) Pre-Engineering Program](#)

[Resources of Undocumented Students](#)

[SchoolLinks](#)

**ETHS
D202**