

# COLLEGE & CAREER PATHWAY COURSES

As part of the College and Career Academy system, you **must** select a Career Exploration Pathway. This pathway is a series of sequential courses you are expected to complete that will give you insight into the type of knowledge needed for a specific career path. You will also be linked with opportunities such as job shadows, college visits and possible internships as you progress in your pathway. Pathways are sorted into different Academies (BACH, HHES, and PACMES). The placement of the pathway in an Academy is somewhat fluid depending on student totals and the process of keeping Academies balanced. Therefore, you need to pick a pathway and not an academy.

Below, please find a condensed, numbered list of all the Career Exploration Pathways. You will also find a separate page which not only lists the Pathway courses but shows a list of possible careers associated with the Pathway and a chart of suggested BMHS courses you may want to consider as you complete your course selection sheet and the course selection process.

Choose wisely as you are allowed to changed your Pathway only once after your sophomore year and still must complete all of the courses in your new pathway.

<b>BACH ACADEMY</b> <i>(Business, Art, Communication and Hospitality)</i> You should consider the BACH Academy if you enjoy: creating a business, computer science, creating art, cooking, learning a new language or performing on stage.			
<b>Career Exploration Pathway Focus</b>	<b>Introductory Courses</b>	<b>Concentration Courses</b>	<b>Capstone Courses</b>
1. <a href="#"><u>Accounting &amp; Finance</u></a>	Business Foundations Microsoft Office	Accounting 1	Advanced Accounting <b>Or</b> HSB Finance <b>Or</b> Advanced Business <b>And/Or</b> Work Based Learning
2. <a href="#"><u>High School of Business</u></a>	HSB Principles of Business HSB Economics	HSB Marketing HSB Finance	HSB Management
3. <a href="#"><u>Entrepreneurship</u></a>	Business Foundations Microsoft Office	Entrepreneurship Accounting 1	Intro to Marketing Business Law
4. <a href="#"><u>Digital Media Arts</u></a>	2D Art	Photography Intro to Graphics Digital Art 1	Digital Art 2 <b>And/Or</b> AP Studio
5. <a href="#"><u>Hospitality</u></a>	Hospitality 1	Hospitality 2 Food Science	Hospitality 3 <b>And/Or</b> Work Based Learning
6. <a href="#"><u>Information Technology</u></a>	IT Fundamentals	IT Network 1	IT Network 2 <b>And/Or</b> Work Based Learning
7. <a href="#"><u>Music</u></a>	Class Piano	Basic Music Theory	AP Music Theory
8. <a href="#"><u>Theatrical</u></a>	Performing Arts	Theatre Arts Theatre Crafts	Advanced Acting
9. <a href="#"><u>Fine Arts</u></a>	2D Art <b>And/Or</b> 3D Art	Drawing Painting Photography Sculpture	Advanced Drawing <b>And/Or</b> AP Art & Design

<b>Career Exploration Pathway Focus</b>	<b>Introductory Courses</b>	<b>Concentration Courses</b>	<b>Capstone Courses</b>
10. <a href="#"><u>Applied Arts</u></a>	2D Art <b>And/Or</b> 3D Art <b>And/Or</b> Applied Arts	Ceramics Advanced Applied Arts Fashion Design	Advanced Ceramics <b>And/Or</b> AP Studio <b>And/Or</b> AP Art History
11. <a href="#"><u>Spanish Language</u></a>	Spanish 1 Spanish 2	Spanish 3 Spanish 4	AP Spanish Language & Culture <b>And/Or</b> AP Spanish Literature & Culture
12. <a href="#"><u>Spanish for Spanish Speakers</u></a>	Spanish for Spanish Speakers 1	Spanish for Spanish Speakers 2 Spanish for Spanish Speakers 3	AP Spanish Language & Culture <b>And/Or</b> AP Spanish Literature & Culture
13. <a href="#"><u>French Language</u></a>	French 1 French 2	French 3 French 4	AP French Language & Culture
14. <a href="#"><u>Written Communication</u></a>	Media Journalism	Creative Writing <b>And/Or</b> AP Lang. & Comp.	AP Lit. & Comp. <b>And/Or</b> BTC Written Comm.
<p style="text-align: center;"><b>HHES ACADEMY</b>  <i>(Health, Human and Educational Services)</i></p> <p style="text-align: center;">You should consider the HHES Academy if you enjoy working with children, helping others,  understanding how the human body works, or caring for others.</p>			
15. <a href="#"><u>Early Childhood Education</u></a>	Psychology Child Development	Early Childhood Ed. 1 Early Childhood Ed. 2	Early Childhood Ed. 3 <b>And/Or</b> Work Based Learning
16. <a href="#"><u>Education</u></a>	Psychology Child Development	Foundation of Education	AP Psychology <b>And/Or</b> Work Based Learning
17. <a href="#"><u>Human Services</u></a>	Sociology	Psychology + 1 Suggested elective	Adv. Health <b>Or</b> AP Psychology
18. <a href="#"><u>Healthcare</u></a>	Health Careers <b>And</b> General Chemistry <b>Or</b> Chemistry in the Community	Microbiology Anatomy & Physiology	Medical Terminology <b>And</b> AP Biology <b>Or</b> AP Chemistry <b>And/Or</b> Work Based Learning
19. <a href="#"><u>Biomedical Technology</u></a>	General Biology	General Chemistry Microbiology	Medical Terminology <b>And</b> Biotechnology <b>Or</b> AP Biology

<b>PACMES</b> (Public Safety, Automotive, Construction, Manufacturing, Engineering & Science)  You should consider the PACMES Academy if you enjoy protecting others or natural resources, working with tools, learning about cars and machines, building things or scientific discovery.			
<b>Career Exploration Pathway Focus</b>	<b>Introductory Courses</b>	<b>Concentration Courses</b>	<b>Capstone Courses</b>
20. <a href="#"><u>Construction</u></a>	Construction 1	Construction 2	Construction 3 <b>And/Or</b> Work Based Learning
21. <a href="#"><u>Cabinetry/Millwork</u></a>	Cabinetry 1	Cabinetry 2	Cabinetry 3 <b>And/Or</b> Work Based Learning
22. <a href="#"><u>Automotive</u></a>	Intro to Auto Tech	Auto Tech 1 Auto Tech 2	Auto Tech 3 <b>And/Or</b> Work Based Learning
23. <a href="#"><u>Engineering</u></a>	Intro to Engineering	Conceptual Physics	Principles of Engineering <b>Or</b> AP Physics
24. <a href="#"><u>Land Resources</u></a>	Physical World Water, Weather & Climate	Environmental Science	AP Environmental Science Outdoor Adventure
25. <a href="#"><u>Military Leadership</u></a>	JROTC – LET 1	JROTC – LET 2 JROTC – LET 3	JROTC – LET 4
26. <a href="#"><u>Public Safety</u></a>	WH: World Conflicts Psychology	Criminal Law Intro to Forensic Science	Fire Behavior & Comb. <b>Or</b> Intro to Corrections <b>Or</b> AP Psychology
27. <a href="#"><u>Welding</u></a>	Welding 1	Welding 2	Welding 3 <b>And/Or</b> Work Based Learning
28. <a href="#"><u>CNC Machining</u></a>	Machining 1	Machining 2	Machining 3 <b>And/Or</b> Work Based Learning
29. <a href="#"><u>Physical Science</u></a>	General Chemistry <b>Or</b> Chemistry in the Community	Conceptual Physics Food Science	AP Chemistry <b>Or</b> AP Physics
30. <a href="#"><u>Biological Science</u></a>	General Biology	Microbiology or Anatomy & Physiology	AP Biology <b>Or</b> Intro to Biotechnology

## ACCOUNTING & FINANCE CAREERS

Using systems and skills to keep the financial records of a business or individual.

### POTENTIAL CAREERS IN ACCOUNTING & FINANCE

Abstractor	Comptroller	Loan Officer
Accountant	Credit Analyst	Manager
Actuary	Debt Counselor	Non-profit Manager
Auditor	Economist	Tax Examiner
Banker	Financial Analyst	Title Researcher and Examiner
Bill and Account Collector	Financial Planner	Treasurer
Budget Analyst	Fund Raiser	Trust Officer
Commodities Representative	Insurance Broker	Underwriter

### EXPLORATORY PATHWAY COURSE SEQUENCES

Pathway Level	Required Exploratory Pathway Courses
	1. Accounting & Finance Pathway
Introductory Course(s)	Business Foundations Microsoft Office
Concentration Course(s)	Accounting I
Capstone Course /Experience	Advanced Accounting <b>Or</b> HSB Finance <b>Or</b> Advanced Business <b>And</b> Work Based Learning

### SUGGESTED ELECTIVE COURSES TO ENHANCE PATHWAY

Department	Course(s)
English	Public Speaking
Math	Probability & Statistics      AP Statistics AP Calculus AB      AP Calculus BC
Social Studies	Economics
World Languages	Spanish I / II / III      French I / II / III

### POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING

Potential Outcomes	Certifying Agency
Microsoft Office Certification	Certiport
Associates Degree – Business Management	Blackhawk Technical College
Business Co-Op	Work Based Learning

## **BUSINESS CAREERS**

Planning, organizing, directing, and controlling business operations. Those who work in this field have to use a broad range of ideas and practices to maintain and grow their business through the management of materials, equipment, workers and other financial resources.

### **POTENTIAL CAREERS IN BUSINESS**

Advertising Sales Person	Corporate Trainer	Financial Advisor
Business Consultant	E-commerce Analyst	Human Resources Manager
Business Operations Manager	Entrepreneur	Insurance Agent
Chain Supply Management	Facilities Manager	Management Analyst
Compliance Officer		

### **EXPLORATORY PATHWAY COURSE SEQUENCES**

<b>Pathway Level</b>	<b>Required Exploratory Pathway Courses</b>	
	<b>2. HSB Business Pathway</b>	<b>3. Entrepreneurship Pathway</b>
Introductory Course(s)	HSB Principles of Business HSB Economics	Business Foundations Microsoft Office
Concentration Course(s)	HSB Marketing HSB Finance	Entrepreneurship Accounting I
Capstone Course /Experience	HSB Management	Intro to Marketing Business Law

### **SUGGESTED ELECTIVE COURSES TO ENHANCE PATHWAY**

<b>Department</b>	<b>Course(s)</b>
Business	Microsoft Office                      Advanced Accounting Sports & Entertainment Management
English	Public Speaking
Math	Probability & Statistics                      AP Statistics AP Calculus AB                              AP Calculus BC
Science	Environmental Science
Social Studies	Economics                              Women Studies Current Events                              Sociology
World Languages	Spanish I / II / III                      French I / II / III

### **POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING**

<b>Potential Outcomes</b>	<b>Certifying Agency</b>
A*S*K Business Exams: Marketing	MBA Research
Finance	MBA Research
Ethics	MBA Research
Entrepreneurship	MBA Research

## **DIGITAL MEDIA ARTS CAREERS**

Creating visual concepts to communicate ideas that inspire, inform, or captivate consumers.

### **POTENTIAL CAREERS IN DIGITAL MEDIA ARTS**

Animator	Lithographer	Printing Equipment Operator
Art Director	Marketing Specialist	Product Designer
Creative Director	Media Specialist	Production Coordinator
Desktop Publishing Specialist	Multimedia Artist Film Editor	Production Manager
Graphic Artist	Photographer	Typographer
Graphics Equipment Operator	Plate Maker	Web Architect/Designer
Illustrator	Pre-production Technician	Web Page Designer

### **EXPLORATORY PATHWAY COURSE SEQUENCES**

<b>Pathway Level</b>	<b>Required Exploratory Pathway Courses</b>
	<b>4. Digital Media Pathway</b>
Introductory Course(s)	2-D Art
Concentration Course(s)	Photography Intro to Graphics Digital Art I
Capstone Course /Experience	Digital Art II <b>And/Or</b> AP Studio

### **SUGGESTED ELECTIVE COURSES TO ENHANCE PATHWAY**

<b>Department</b>	<b>Course(s)</b>
Art	Drawing Painting
Business	Intro to Marketing Microsoft Office Entrepreneurship Business Publications Multimedia
English	Greek & Roman Mythology World Mythology Media Journalism
Math	Probability & Statistics

### **POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING**

<b>Potential Outcomes</b>	<b>Certifying Agency</b>
College Credit – AP Studio	AP College Board

## **HOSPITALITY CAREERS**

Management, marketing and operations of restaurants and other foodservices.

### **POTENTIAL CAREERS IN HOSPITALITY**

Baker	Event Planner	Pastry and Specialty Chefs
Caterer	Food and Beverage Manager	Restaurant Owner
Catering & Banquets Manager	Kitchen Manager	Restaurant Server
Deli worker	Line Cook	Service Manager
Executive Chef	Maître d'	Sous Chef

### **EXPLORATORY PATHWAY COURSE SEQUENCES**

<b>Pathway Level</b>	<b>Required Exploratory Pathway Courses</b>
	<b>5. Hospitality Pathway</b>
Introductory Course(s)	Hospitality I
Concentration Course(s)	Hospitality II Food Science
Capstone Course /Experience	Hospitality III <b>And</b> Work Based Learning

### **SUGGESTED ELECTIVE COURSES TO ENHANCE PATHWAY**

<b>Department</b>	<b>Course(s)</b>
Business	Business Foundations      Intro to Marketing Accounting I                  Entrepreneurship Business Law
Family/Consumer Sci.	Foods & Cultures
Math	Probability & Statistics
Social Studies	Psychology
World Languages	Spanish I / II / III                  French I / II / III

### **POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING**

<b>Potential Outcomes</b>	<b>Certifying Agency</b>
ServSafe – Food Safety Manager Certification	National Restaurant Assoc.
Associates Degree – Culinary Arts	Blackhawk Technical College
Youth Apprenticeship	Work Based Learning

## **INFORMATION TECHNOLOGY CAREERS**

Designing, developing, applying, implementing, supporting or managing computer-based information systems.

### **POTENTIAL CAREERS IN INFORMATION TECHNOLOGY**

Database Administrator	Network Administrator	Systems Administrator
Data Systems Designer	Network Security Analyst	Telecommunications Network
E-business Specialist	PC Support Specialist	Technician
Game Developer	Programmer	User Support Specialist
Information Tech Engineer	Software Applications Specialist	Virtual Reality Specialist
		Web Developer

### **EXPLORATORY PATHWAY COURSE SEQUENCES**

<b>Pathway Level</b>	<b>Required Exploratory Pathway Courses</b>
	<b>6. Information Technology Pathway</b>
Introductory Course(s)	IT Fundamentals
Concentration Course(s)	IT Network 1
Capstone Course /Experience	IT Network 2 <b>And/Or</b> Work Based Learning

### **SUGGESTED ELECTIVE COURSES TO ENHANCE PATHWAY**

<b>Department</b>	<b>Course(s)</b>	
Business	Microsoft Office HSB Marketing	Multimedia Intro to Marketing
English	Greek & Roman Mythology	World Mythology
Math	Probability & Statistics AP Calculus AB	AP Statistics AP Calculus BC
Science	Conceptual Physics	AP Physics

### **POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING**

<b>Potential Outcomes</b>	<b>Certifying Agency</b>
CompTIA IT Fundamentals	Comp TIA
CompTIA IT Network	Comp TIA
Internship	Work Based Learning



## PERFORMING ARTS CAREERS

Designing, producing and performing in entertaining careers in musical and/or theatrical performance.

### POTENTIAL CAREERS IN PERFORMING ARTS

Actor	Director	Playwright
Critic	Dramaturg	Set Design
Composer	Event Coordinator	Sound Effects
Conductor	Instrumentalist	Stage Manager
Choreography	Make-Up Artist	Theatre Teacher
Costume Design	Music Teacher	Vocalist
Dancer	Performer	Voiceover Artist

### EXPLORATORY PATHWAY COURSE SEQUENCES

Pathway Level	Required Exploratory Pathway Courses	
	7. Music Pathway	8. Theatrical Pathway
Introductory Course(s)	Class Piano	Performing Arts
Concentration Course(s)	Basic Music Theory	Theatre Arts Theatre Crafts
Capstone Course /Experience	AP Music Theory <b>Or</b> Senior Recital	Advanced Acting <b>Or</b> Senior Recital
Additional Requirement	Performance Ensemble Participation (minimum of 3 years)	Theatre Production Participation (minimum of 3 years)

### SUGGESTED ELECTIVE COURSES TO ENHANCE PATHWAY

Department	Course(s)	
Art	3-D Art	Fashion Design
English	Intro to Public Speaking Greek & Roman Mythology Women Writers	Creative Writing World Mythology AP English Literature
Math	Probability & Statistics	
Physical Ed	Lifetime Wellness	Strength & Conditioning
Science	Conceptual Physics	AP Physics
Tech Ed	Construction I	Cabinetry I

### POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING

Potential Outcome	Certifying Agency
College Credit – AP Music Theory	AP College Board

## **FINE ARTS CAREERS**

Creating visual arts, painting, photography, sculpture, drawing, and more.

### **POTENTIAL CAREERS IN STUDIO ARTS**

Animator	Commercial Photographer	Graphic Designer
Architect	Computer Animator	Illustrator
Art director	Curator	Interior Designer
Art teacher	Draftsperson	Jeweler
Artist	Fashion Designer	Printmaker
Ceramic/Craft Artist	Fashion Illustrator	Product Designer
Commercial Artist	Gallery Manager	Special Effects Artist

### **EXPLORATORY PATHWAY COURSE SEQUENCES**

<b>Pathway Level</b>	<b>Required Exploratory Pathway Courses</b>	
	<b>9. Fine Arts Pathway</b>	<b>10. Applied Arts Pathway</b>
Introductory Course(s)	2D Art <b>And/Or</b> 3D Art	2D Art <b>And/Or</b> 3D Art <b>And/Or</b> Applied Arts
Concentration Course(s)	Drawing Painting Sculpture Photography	Ceramics Fashion Design
Capstone Course /Experience	Advanced Drawing <b>And/Or</b> AP Art & Design	AP Art & Design

### **SUGGESTED ELECTIVE COURSES TO ENHANCE PATHWAY**

<b>Department</b>	<b>Course(s)</b>
Business	Intro to Marketing      Entrepreneurship
English	Greek & Roman Mythology      World Mythology
Math	Probability & Statistics
Family/Consumer Science	Housing and Interior Design

### **POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING**

<b>Potential Outcomes</b>	<b>Certifying Agency</b>
College Credit – AP Studio	AP College Board

## **WORLD LANGUAGES AND COMMUNICATIONS CAREERS**

Exchanging information among individuals or groups through written documents, spoken word, or behaviors to increase awareness and understanding.

### **POTENTIAL CAREERS IN WORLD LANGUAGES & COMMUNICATIONS**

Communication Specialist	International Health Care Worker	Public Relations
Consultant	International Land Developer	Teacher of World Languages
Customer Service Manager	International Tax Lawyer	Translator
International Economist	Interpreter	Travel Agent

### **EXPLORATORY PATHWAY COURSE SEQUENCES**

<b>Pathway Level</b>	<b>Required Exploratory Pathway Courses</b>		
	<b>11. Spanish Language Pathway</b>	<b>12. Spanish for Spanish Speakers Pathway</b>	<b>13. French Language Pathway</b>
Introductory Course(s)	Spanish 1 Spanish 2	Spanish for Spanish Speakers I	French 1 French 2
Concentration Course(s)	Spanish 3 Spanish 4	Spanish for Spanish Speakers 2 Spanish for Spanish Speakers 3	French 3 French 4
Capstone Course /Experience	AP Spanish Language & Culture <b>And/Or</b> AP Spanish Literature & Culture	AP Spanish Language & Culture <b>And/Or</b> AP Spanish Literature & Culture	AP French Language & Culture

### **RECOMMENDED ELECTIVE COURSES TO ENHANCE PATHWAY**

<b>Department</b>	<b>Course(s)</b>
Art	*Community Art Appreciation
Business	Microsoft Office
Social Studies	*American Minorities *Holocaust & Genocide *African American Studies *AP World History *WH: World Conflicts *WH: World Cultures *AP Human Geography
English	*Women Writers *African American Literature *World Mythology
Family/Consumer Science	*Foods & Cultures

\*Courses which meet Global Scholars Award & Seal of Biliteracy requirements.

### **POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING**

<b>Potential Outcomes</b>	<b>Certifying Agency</b>
Global Scholars Award & Seal of Biliteracy	Department of Public Instruction
Seal of Biliteracy	Department of Public Instruction
Retroactive World Language credits	UW Oshkosh & other UW Schools
College Credit – AP Language & Literature courses	AP College Board

## **WRITTEN COMMUNICATION CAREERS**

Creating, inspiring and informing through the written language.

### **POTENTIAL CAREERS IN WRITTEN COMMUNICATION**

Advertising Copywriter	Grant Writer	Screenwriter
Book Editor	Greeting Card Writer	Social Media Specialist
Columnist	Journalist	Speechwriter
Communications Director	Marketing Communications	Technical Writer
Content Strategist	Novelist	Translator
Copy Editor	Proof Reader	Travel Writer
Film Critic	Proposal Writer	Video Game Writer
Ghost Writer	Public Relations Specialist	Web Content Writer

### **EXPLORATORY PATHWAY COURSE SEQUENCES**

<b>Pathway Level</b>	<b>Required Exploratory Pathway Courses</b>
	<b>14. Written Communications Pathway</b>
Introductory Course(s)	Media Journalism
Concentration Course(s)	Creative Writing
Capstone Course /Experience	Written Communication <b>Or</b> AP Language & Composition <b>Or</b> AP Literature & Composition

### **SUGGESTED ELECTIVE COURSES TO ENHANCE PATHWAY**

<b>Department</b>	<b>Course(s)</b>
Art	Community Art Appreciation
Business	Intro to Marketing
English	Greek & Roman Mythology      World Mythology Yearbook
World Languages	Spanish 1 / 2 / 3      French 1 / 2 / 3

### **POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING**

<b>Potential Outcomes</b>	<b>Certifying Agency</b>
College Credit – AP Language & Composition	AP College Board
College Credit – AP Literature & Composition	AP College Board

## EDUCATION & CHILD DEVELOPMENT CAREERS

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

### POTENTIAL CAREERS IN EDUCATION & CHILD DEVELOPMENT

Administrator	Coach	Elementary Teacher
Assessment Specialist	College/University Faculty	High School Teacher
Career Tech Administrator	Counselor	Middle School Teacher
Child Care Worker	Curriculum Developer	Paraprofessional
Clinical Psychologist	Early Childhood Teacher	Principal
		Speech-Language Pathologist

### EXPLORATORY PATHWAY COURSE SEQUENCES

Pathway Level	Required Exploratory Pathway Courses	
	15. Early Childhood Education Pathway	16. Education Pathway
Introductory Course (s)	Psychology Child Development	Psychology Child Development
Concentration Course(s)	Early Childhood Education I Early Childhood Education II	Foundations of Education
Capstone Course /Experience	Early Childhood Education III <b>And</b> Work Based Learning	AP Psychology <b>And/Or</b> Work Based Learning

### SUGGESTED ELECTIVE COURSES TO ENHANCE PATHWAY

Department	Course(s)	
Business	Microsoft Office	
English	AP Language & Composition Women Writers Intro to Public Speaking	AP Literature & Composition Blackhawk Communications
Math	Probability & Statistics AP Calculus AB	AP Statistics AP Calculus BC
Physical Ed	Lifeguarding	High School Officiating
Science	Anatomy & Physiology	
Social Studies	Sociology	Women's Studies
World Languages	Spanish I / II / III	French I / II / III

### POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING

Potential Outcome	Certifying Agency
Infant & Toddler Teacher	UI/Dept. of Public Instruction
Assistant Child Care Teacher	UI/Dept. of Public Instruction
Employability Skills	UI/Dept. of Public Instruction
Associates Degree - Early Childhood Education	Blackhawk Technical College
Early Childhood Co-op	Work Based Learning
College Credit – AP Psychology	AP College Board

## **HUMAN SERVICES CAREERS**

Providing social support such as counseling and mental health services, family and community services, personal care, and consumer services.

### **POTENTIAL CAREERS IN HUMAN SERVICES**

Adult Day Care Worker	Funeral Director	Rehabilitation Counselor
Community Service Director	Geriatric Services Worker	Religious Leader
Career Counselor	Human Services Worker	Residential Advisor
Cosmetologist	Massage Therapist	Social Worker
Counselor	Mental Health Counselor	Sociologist
Dietician	Personal Fitness Trainer	Substance Abuse Counselor
Emergency Relief Worker	Psychologist	Volunteer Coordinator

### **EXPLORATORY PATHWAY COURSE SEQUENCES**

<b>Pathway Level</b>	<b>Required Exploratory Pathway Courses</b>
	<b>17. Human Service Pathway</b>
Introductory Course	Sociology
Concentration Course(s)	Psychology + 1 elective listed below
Capstone Course /Experience	Advanced Health & Wellness <b>Or</b> AP Psychology

### **SUGGESTED ELECTIVE COURSES TO ENHANCE PATHWAY**

<b>Department</b>	<b>Course(s)</b>	
Art	Community Art	
English	AP Language & Composition Women Writers Intro to Public Speaking	AP Literature & Composition Blackhawk Communications
Family/Consumer Sci.	Child Development Early Childhood II	Early Childhood I Food Science
Math	Probability & Statistics	AP Statistics
Physical Ed	Lifetime Wellness	Strength & Conditioning
Science	Chemistry in the Community	Anatomy & Physiology
Social Studies	Current Events Holocaust & Genocide	African American Studies American Minorities
World Languages	Spanish I / II / III	French I / II / III

### **POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING**

<b>Potential Outcomes</b>	<b>Certifying Agency</b>
College Credit – AP Psychology	AP College Board

## **MEDICAL & HEALTH SCIENCE CAREERS**

Healing others through the diagnosis, treatment, and prevention of disease and injuries.

### **POTENTIAL CAREERS IN MEDICAL & HEALTH SCIENCES**

Anesthesiologist	Dental Laboratory Technician	Pharmacist
Athletic Trainer	Dermatologist	Physician
Biomedical Engineer	Medical Records Technician	Radiation Therapy Technologist
Biomedical Equipment Tech	Neurologist	Surgeon
Clinical Laboratory Technician	Nurse	Veterinarian

### **EXPLORATORY PATHWAY COURSE SEQUENCES**

<b>Pathway Level</b>	<b>Required Exploratory Pathway Courses</b>	
	<b>18. Healthcare Pathway</b>	<b>19. Biomedical Technology</b>
Introductory Course	Health Careers <b>And</b> General Chemistry <b>Or</b> Chemistry in the Community	General Biology
Concentration Course(s)	Microbiology Anatomy & Physiology	Microbiology General Chemistry
Capstone Course /Experience	Medical Terminology (BTC) <b>And</b> AP Biology <b>Or</b> AP Chemistry <b>And/Or</b> Work Based Learning	Medical Terminology (BTC) <b>And</b> Biotechnology <b>Or</b> AP Biology

### **SUGGESTED ELECTIVE COURSES TO ENHANCE PATHWAY**

<b>Department</b>	<b>Course(s)</b>	
Business	Business Foundations Accounting I	Microsoft Office Entrepreneurship
English	AP Language & Composition Intro to Public Speaking	AP Literature & Composition Blackhawk Communications
Math	Probability & Statistics AP Calculus AB	AP Statistics AP Calculus BC
Physical Ed	Lifeguarding	Lifetime Wellness
Science	Chemistry in the Community	
Social Studies	Psychology	AP Psychology
World Languages	Spanish I / II / III	French I / II / III

### **POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING**

<b>Potential Outcomes</b>	<b>Certifying Agency</b>
Certified Nursing Assistant (CNA)	Blackhawk Technical College
Associates Degree - Licensed Practical Nurse (LPN)	Blackhawk Technical College
Youth Apprenticeship	Work Based Learning
College Credit – AP Biology or AP Chemistry	AP College Board

## ARCHITECTURE & CONSTRUCTION CAREERS

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

### POTENTIAL CAREERS IN ARCHITECTURE & CONSTRUCTION

Architect	Electrician	Plumber
Carpenter	Electronic Systems Technician	Project Estimator
Civil Engineer	Equipment/material Manager	Project Inspector
Construction Foreman	General Contractor/Builder	Project Manager
Contractor	HVAC Mechanic	Roofer
Drafter	Interior Designer	Safety Director
Demolition Engineer	Painter	Sheet Metal Worker
Drywall Installer	Pipefitter	Tile/Marble Setter

### EXPLORATORY PATHWAY COURSE SEQUENCES

Pathway Level	Required Exploratory Pathway Courses	
	20. Construction Pathway	21. Cabinetry/Millwork Pathway
Introductory Course(s)	Construction I	Cabinetry 1
Concentration Course(s)	Construction II	Cabinetry II
Capstone Course /Experience	Construction III <b>And/Or</b> Work Based Learning	Cabinetry III <b>And/Or</b> Work Based Learning

### SUGGESTED ELECTIVE COURSES TO ENHANCE PATHWAY

Department	Course(s)
Art	3D Art
Business	Business Foundations      Accounting I Entrepreneurship
English	Blackhawk Communications      Intro to Public Speaking
Family/Consumer Sci.	Housing & Interior Design
Math	Tech Math I      Tech Math II Geometry
Physical Ed	Strength & Conditioning
Science	Conceptual Physics      Water, Weather & Climate Chemistry in the Community      General Chemistry
Tech Education	Welding I / II / III
World Languages	Spanish I / II / III      French I / II / III

### POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING

Potential Outcomes	Certifying Agency
OSHA 10 Certification	Occupational Safety and Health Administration
Saw Blade Certification	Woodwork Career Alliance
Youth Apprenticeship	Work Based Learning



## **AUTOMOTIVE & TRANSPORTATION CAREERS**

Technical support, planning and management of mobile equipment.

### **POTENTIAL CAREERS IN AUTOMOTIVE & TRANSPORTATION**

Auto Body Technician	Fleet Maintenance Manager	Repair Technician
Auto Electronics Specialist	Fleet Manager	Service Manager
Automotive Service Technician	Painting Technician	Shop Owner
Field Service Representative	Parts Manager	Truck Driver

### **EXPLORATORY PATHWAY COURSE SEQUENCES**

<b>Pathway Level</b>	<b>Required Exploratory Pathway Courses</b>
	<b>22. Automotive Pathway</b>
Introductory Course(s)	Introduction to Automotive Technology
Concentration Course(s)	Automotive Technology I Automotive Technology II
Capstone Course /Experience	Automotive Technology III <b>And/Or</b> Work Based Learning

### **SUGGESTED ELECTIVE COURSES TO ENHANCE PATHWAY**

<b>Department</b>	<b>Course(s)</b>
Business	Business Foundations      Entrepreneurship
English	Blackhawk Communications
Math	Tech Math I      Tech Math II
Science	Environmental Science      Conceptual Physics Chemistry in the Community

### **POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING**

<b>Potential Outcomes</b>	<b>Certifying Agency</b>
ASE Student Certification- Brakes	ASE
ASE Student Certification- Engine Repair	ASE
ASE Student Certification- Heating & Air Conditioning	ASE
ASE Student Certification- Maintenance & Light Repair	ASE
ASE Student Certification- Suspension and Steering	ASE
2 Year Technical Diploma	Blackhawk Technical College
Youth Apprenticeship	Work Based Learning

## ENGINEERING PATHWAY CAREERS

Designing, building, and maintaining structures, devices, systems, materials, and processes through a combination of scientific, economic, social, and practical knowledge and skills in order to solve problems to improve the world around us.

### POTENTIAL CAREERS IN ENGINEERING

Aerospace Engineer	Computer Programmer	Mechanical Designer
Agricultural Engineer	Ecologist	Metallurgist
Analytical Chemist	Electrical Engineer	Quality Engineer
Architectural Engineer	Electronics Technician	Software Engineer
Astrophysicist	Engineering Technician	Structural Engineer
Biomedical Engineer	Geologist	Survey Technician
CAD Technician	Geothermal Engineer	Systems Engineer
Civil Engineer	Industrial Engineer	Robotics Engineer

### EXPLORATORY PATHWAY COURSE SEQUENCES

Pathway Level	Required Exploratory Pathway Courses
	23. Engineering Pathway
Introductory Course(s)	PLTW Intro to Engineering Design
Concentration Course(s)	Conceptual Physics
Capstone Course /Experience	PLTW Principles of Engineering <b>Or</b> AP Physics

### SUGGESTED ELECTIVE COURSES TO ENHANCE PATHWAY

Department	Course(s)
Art	3-D Art
Business	Microsoft Office      Accounting I Multimedia      Entrepreneurship
English	AP Language & Composition      Blackhawk Communications Intro to Public Speaking
Math	Probability & Statistics      AP Statistics AP Calculus AB      AP Calculus BC
Science	General Chemistry      AP Chemistry Physical World      AP Environmental Science Environmental Science
World Languages	Spanish I / II / III      French I / II / III

### POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING

Potential Outcomes	Certifying Agency
AutoCAD Inventor	Certiport
AutoCAD Certified User	Certiport
College Credit – AP Physics	AP College Board

## LAND & RESOURCE MANAGEMENT CAREERS

Researching, designing, strategically planning, and implementing to ensure human interactions with the environment have a minimal impact and efficiently use our scarce resources.

### POTENTIAL CAREERS IN LAND & RESOURCE MANAGEMENT

Climatologist	Environmental Protection	Horticulturist
DNR Officer	Environmental Scientist	Industrial Hygienist
DOT Inspector	Farmer	Landscaper
Ecologist	Geologist	Park Ranger
Environmental Compliance	Hazardous Materials Manager	Risk Manager
Environmental Engineer	Health and Safety Engineer	Soil Scientist
Environmental Manager	Health and Safety Manager	Wildlife/Fisheries Biologist

### EXPLORATORY PATHWAY COURSE SEQUENCES

Pathway Level	Required Exploratory Pathway Courses
	24. Land Resources Pathway
Introductory Course(s)	Physical World Water, Weather & Climate
Concentration Course(s)	Environmental Science
Capstone Course /Experience	AP Environmental Science Outdoor Adventure

### SUGGESTED ELECTIVE COURSES TO ENHANCE PATHWAY

Department	Course(s)
Business	Business Foundations      Entrepreneurship
English	Blackhawk Communications
Math	Probability & Statistics      AP Statistics
Physical Ed	Advanced Health      Strength & Conditioning
Science	AP Biology
Social Studies	WH: Human Footprints      AP Human Geography
World Languages	Spanish I / II / III      French I / II / III

### POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING

Potential Outcomes	Certifying Agency
College Credit – AP Environmental Science	AP College Board

## **LAW & PUBLIC SAFETY CAREERS**

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

### **POTENTIAL CAREERS IN LAW & PUBLIC SAFETY**

Ambassador	Court Reporter	Firefighter
Attorney	Criminal Investigator	Forensic Scientist
Bomb Technician	Cryptographer	Military Service Person
City Manager	Elected Official	Police Officer
Combat Control Officer	Emergency Medical Technician	World Service Officer
Commissioner	Federal Marshall	

### **EXPLORATORY PATHWAY COURSE SEQUENCES**

<b>Pathway Level</b>	<b>Required Exploratory Pathway Courses</b>	
	<b>25. Military Leadership Pathway</b>	<b>26. Public Safety Pathway</b>
Introductory Course(s)	JROTC - LET I	WH: World Conflicts Psychology
Concentration Course(s)	JROTC - LET II JROTC - LET III	Criminal Law Forensic Science
Capstone Course /Experience	JROTC - LET IV	Fire Behavior & Combustion (BTC) <b>Or</b> Intro to Corrections (BTC) <b>Or</b> AP Psychology

### **SUGGESTED ELECTIVE COURSES TO ENHANCE PATHWAY**

<b>Department</b>	<b>Course(s)</b>	
Business	Business Foundations Microsoft Office	Accounting I
Math	Probability & Statistics	AP Statistics
Physical Ed	Lifeguarding	Strength & Conditioning
Science	General Chemistry Conceptual Physics	Chemistry in the Community
Social Studies	Current Events American Minorities	African American Studies Sociology
World Languages	Spanish I / II / III	French I / II / III

### **POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING**

<b>Potential Outcomes</b>	<b>Certifying Agency</b>
College Credit – AP Psychology	AP College Board

## **MANUFACTURING & SKILLED TRADES CAREERS**

Planning, managing and performing the processing of materials into products and the related professional and technical support activities.

### **POTENTIAL CAREERS IN MANUFACTURING & SKILLED TRADES**

CAD/CAM Programmer	Maintenance Mechanic	Robotic Programmer
Fabricator	Metrology	Welder
Machine Sales & Service	Pipefitter	Welding Engineer
Machinist	Plant Manager	

### **EXPLORATORY PATHWAY COURSE SEQUENCES**

<b>Pathway Level</b>	<b>Required Exploratory Pathway Courses</b>	
	<b>27. Welding Pathway</b>	<b>28. Machining Pathway</b>
Introductory Course	Welding I	Machining & CNC Op. I
Concentration Course(s)	Welding II	Machining & CNC Op. II
Capstone Course /Experience	Welding III <b>And/Or</b> Work Based Learning	Machining & CNC Op. III <b>And/Or</b> Work Based Learning

### **SUGGESTED ELECTIVE COURSES TO ENHANCE PATHWAY**

<b>Department</b>	<b>Course(s)</b>
English	Blackhawk Communications
Math	Tech Math I                      Tech Math II
Physical Ed	Strength & Conditioning
Science	Chemistry in the Community      Conceptual Physics

### **POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING**

<b>Potential Outcomes</b>	<b>Certifying Agency</b>
AWS SENSE Level 1	American Welding Society
NIMS Certifications (various)	National Institute of Metalworking Skills
2 Year Technical Diploma	Blackhawk Technical College
Youth Apprenticeship	Work Based Learning

## SCIENCE CAREERS

Planning, managing and providing scientific research and professional and technical services including laboratory and testing services and research and development services.

### POTENTIAL CAREERS IN SCIENCE

Astronomer	Food Scientist	Physicist
Botanist	Geneticist	Science Researcher
Climatologist	Lab Technician	Science Teacher
Ecologist	Marine Biologist	Stock Room Technician
Environmental Scientist	Pharmaceutical Research	Zoologist

### EXPLORATORY PATHWAY COURSE SEQUENCES

Pathway Level	Required Exploratory Pathway Courses	
	29. Physical Science Pathway	30. Biological Science Pathway
Introductory Course(s)	General Chemistry <b>Or</b> Chemistry in the Community	General Biology
Concentration Course(s)	Conceptual Physics <b>Or</b> Food Science	Microbiology <b>Or</b> Anatomy & Physiology
Capstone Course /Experience	AP Chemistry <b>Or</b> AP Physics	AP Biology <b>Or</b> Intro to Biotechnology

### SUGGESTED ELECTIVE COURSES TO ENHANCE PATHWAY

Department	Course(s)
Business	Microsoft Office
English	AP Language & Composition
Math	Probability & Statistics      AP Statistics AP Calculus AB      AP Calculus BC
Physical Ed	Outdoor Adventure
World Languages	Spanish I / II / III      French I / II / III

### POTENTIAL CERTIFICATIONS/DEGREES/WORK BASED LEARNING

Potential Outcomes	Certifying Agency
College Credit – AP Chemistry, AP Physics, AP Biology	AP College Board