



Career and Technical Education

The Road to Success ~ Willowbrook



Mrs. Barney
CTE Dept Chair



DUAL CREDIT – IN CTE

- Transfers as elective or department credit to any college/university who accepts credit from College of DuPage
FREE TUITION - WITH CTE WBHS INSTRUCTORS

• ACCOUNTING 2 Honors	=	ACCOU 1110 ---	3 credits
• BUSINESS EXPLORATINS	=	BUSIN 1111 --	3 credits
• KEYBOARDING	=	OFTI 1100 ---	3 credits
• COLLEGE & CAREER TECH Honors	=	OFTI 1210 ---	3 credits
• COMMUNICATIONS TECH	=	OFTI 1250 ---	3 credits
• AUTO UPKEEP	=	AUTO 1040 ---	3 credits
• AUTOMOTIVE 1	=	AUTO 1040 ---	3 credits
• AUTOMOTIVE 2	=	AUTO 1110 ---	3 credits
• ARCH CAD & DESIGN 2 Honors`	=	ARCH 1211---	3 credits
• PHOTOGRAPHY 1 Honors	=	PHOTO 1100 ---	3 credits
• PHOTOGRAPHY 2 Honors	=	PHOTO 1102 ---	3 credits
• DIGITAL PHOTO/IMAGING Honors	=	PHOTO 1101 ---	3 credits
• COMPUTER REPAIR	=	CIT 1100 ---	2 credits
• ADVANCED COMPUTER REPAIR	=	CIT 1111 ---	3 credits
• CULINARY 3 BROOK CATERING Honors	=	CULIN 1120 --	2 credits & FSSMCertification
• CULINARY 3 HOSPITALITY Honors	=	CULIN 1120 --	2 credits & FSSMCertification
• FITNESS & NUTRITION	=	CULIN 1109 --	1 credit
• PRESCHOOL INTERNSHIP Honors	=	First Aid, Infant/Child/Adult CPR, AED Certification	
• HUMAN GROWTH/CHILD DEV/ PRESCHOOL 1	=	- * 4 state certifications/ University articulation	

Savings:

- **AVERAGE 3 CREDIT HOUR CLASS AT COD - \$475**
- **AVERAGE 3 CREDIT HOUR CLASS AT U of I - \$1250**
- **47 total credit hours = over 1.5 years of college credit in CTE alone!**
- ***Be one step closer to starting college as a Sophomore & SAVE yourself \$10,000 in 1 year***

WB CTE CERTIFICATE PROGRAMS

- **Culinary II: Food Handler**
- **Culinary III: Food Safety & Sanitation Managerial Certification**
- **Culinary 3 – Hospitality - SP/2 Soft Skills** **update for 2021**
- **Human Growth:**
 - **Shaken Baby Syndrome**
 - **Sudden Infant Death Syndrome Prevention**
 - **Poison Prevention Education**
- **Preschool I:**
 - **Gateway ECE Level 1 & Mandated Reporting**
- **Preschool Intern:**
 - **AED Certificate Infant & Child & Adult CPR Certification & First Aid Certification**
- **Auto 1, 2, 3 and 4:**
 - **SP/2 Pollution Prevention Safety & SP/2 Automotive Service Safety**
- **Auto 3:**
 - **ASE Certifications: Engine Performance**
 - **ASE Certifications: Maintenance & Light Repair**
 - **ASE Certifications: Automatic Transmission**
 - **ASE Certifications: Electrical**
 - **ASE Certifications: Manual Drive Train**
 - **EPA 609 Certification**
- **Adv. Comp. Repair: Computer TIA**
- **Woods I & II: Woodworkers Career Alliance**
- **Building Trades 1 & 2: SP/2 Construction Safety**



GTE



Business Education

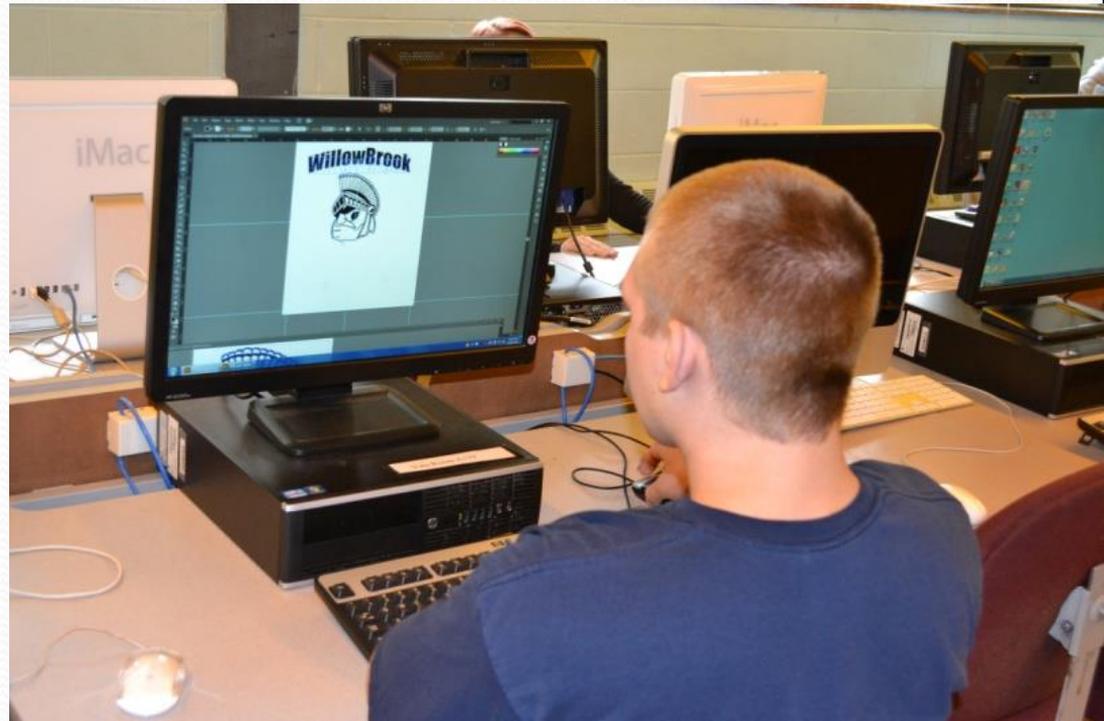
- The # 1 most popular College major has remained Business for the past decade – Are you interested in...
- Marketing, Management, Law
- Accounting, Entrepreneurship
- Office Technology, Finance, Insurance
- International Business, Corporate trading
- Stocks, Bonds, Mutual Funds, Investing
- Running your own business or partnership
- **DECA & BPA**

KEYBOARDING/ WORD PROCESSING



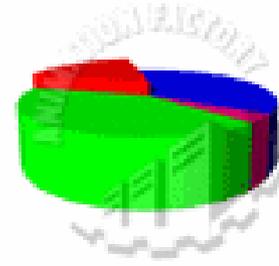
- One semester - grades 9-12
- Emphasis on improving speed/technique while keying accurately
- Learn to format several documents – skills for personal & professional use
- Increase **speed and accuracy** for reports and **ONLINE TESTS: SAT/ACT/PARCC**

- **TRANSFERRABLE DUAL CREDIT**
- **OFTI 1100**



COLLEGE & CAREER TECH

- “Hands-on” experience with MS Office (Word, Excel, Access)
- Assists greatly with other courses taken in high school/college, and in the world of work
- (Honors Option)
- Grades 9-12 (One Semester)
- **TRANSFERRABLE DUAL CREDIT**
- **OFTI 1210**
- **#1 Need for current employers!**



COMMUNICATIONS TECHNOLOGY

(One Semester) Grades 10,11,12

- Able to use PowerPoint, Prezi, & other Presentation software while presenting speeches
- 4 Speeches : Personal, Debate, Informative, Persuasive plus Career research
- **TRANSFERRABLE DUAL CREDIT**
- **As OFTI 1250 (Business elective)**
- **TRANSFERS to most colleges & universities**
- GREAT pairing for semester course with Consumer!
- Fulfills **Speech Graduation Requirement** for WBHS (English credit) plus **DUAL CREDIT**



CONSUMER MANAGEMENT

~ online version 9th hour available **

(10,11,12 grades)

(One Semester)

- Satisfies required Consumer Education graduation credit



• Real World topics:

- Budgeting
- Using Credit WISELY
- Being an informed consumer
- Advertising practices
- Checking Account Simulation
- Savings and Investing
- Insurance & Taxes
- BE INFORMED!



INTRODUCTION TO BUSINESS

(Full Year Course; 9- 12 grades)

Satisfies required Consumer Education graduation credit



- Understanding the Economy and World Trade
- More In-depth studies than consumer semester
- Basic Skills in Consumer Topics including Budgeting, Credit, Insurance, Taxation, Comparison Shopping, Savings, and Investing

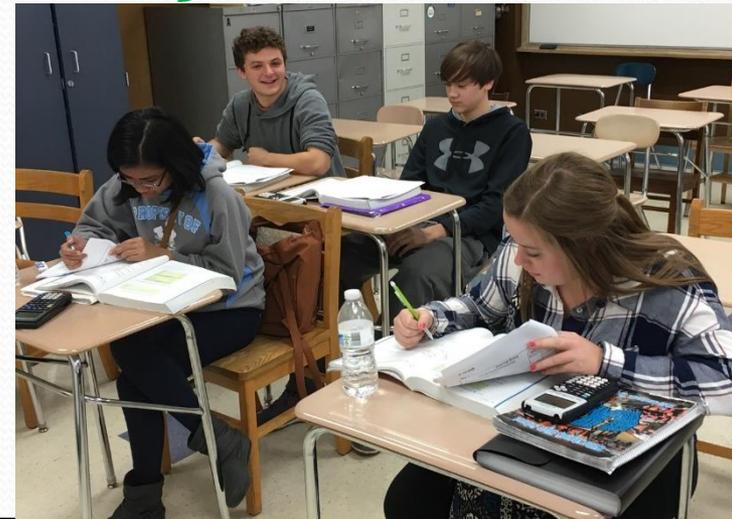


ACCOUNTING I / ACCY II

(Full Year Course) (10, 11, 12) *2 Year sequence



- Business Terminology
- ***MUST*** for anyone interested in majoring in accounting, finance, economics, marketing, hotel management!!
- Learn how to keep the books for a company
- Real-Life Applications
- (Honors Option Available)
- Automated Accounting Software
- Careers in Accounting
- Field trip Kane County Cougars
- **TRANSFERRABLE DUAL CREDIT**
- **1 OF ONLY 2 PROGRAMS IN DUPAGE COUNTY!**
- **ACCOU 1110 3 credits!!**



BUSINESS LAW

(One Semester) (10,11,12 grades)
(Honors Option Available)

- Criminal Law/ Civil Law/Tort Cases
- Ethics/business
- State/Federal Courts
- Contract & Employment Law
- Debates & MOCK TRIAL
- Field trip DuPage County Court House
- Careers in Criminal Justice, Business contracts, Attorney, Judge



Marketing

Sports and Entertainment

(One Semester) Honors Option Available
10, 11, 12 grades

- Sales and Advertising
- Entertainment & Sports Careers
- Sports Agents & Editors, Advisors, Athletes
- Marketing – Entertainment Industry
- International Business Advisors, Managers
- Music Industry; Online Companies, Magazines,
- OAKBROOK CHAMBER/ACE/SWEET BABY RAYS
- Kane County Cougars Field trip
- Chicago Wolves Field Trip



Entrepreneurship

(One Semester) (10, 11,12 grades)

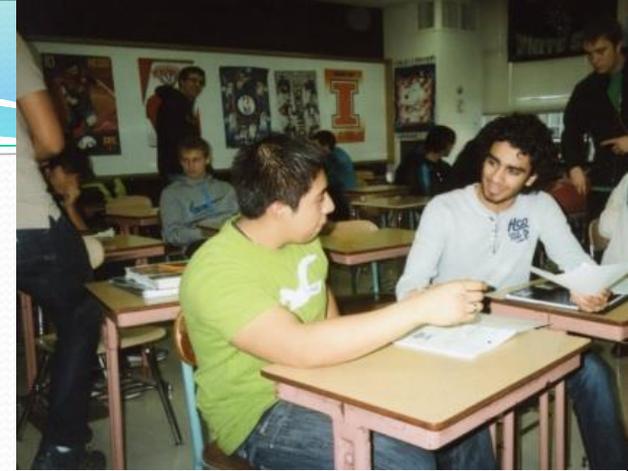
- Owning Your Own Business
- Research/Planning Venture
- Marketing Strategies
- Leadership Styles
- Managerial Skills
- Communication Skills
- Changes in the Workplace
(Honors Option Available)



DECA – COMPETITIVE BUSINESS CLUB –

Last year- Marketing at
United Center & BULLS GAME!

- JAN- Regional Competition
- FEB – 22 STATE QUALIFIERS!





BUSINESS EXPLORATIONS

(One Semester) All grade levels

Discover a variety of business fields of study and ranges of career opportunities, technical and service based training, & future openings

- Advertising, Marketing
- Management, Business, Law
- Desktop Publishing and Technology
- **Career Research; Resume, Cover letter**
- **Job application and interview skills**
- Personality assessments and career matching



Family and Consumer Sciences

- Includes classes that will help in your personal lives and in possible careers in the food industry, medical, entertainment, child care, education, social work, counseling, and hotel/restaurant.
- **FCCLA – FACS CLUB**



Culinary Arts I/II

(One Semester Each) (9-12 grades)



- Prepare Recipes for everyday cooking and those who aspire to work in food service industries. Classroom and Lab settings; safety and sanitation training.
- Pastas, Fruits, Vegetables; Chili & Soups; Cake Decorating
- Pies, Breads, Pizzas **CULINARY 2 – FOOD HANDLER CERTIFICATION 95%**



Culinary Arts III –

(2 Semesters, Option to repeat; may take as 1 or 2 block period
(Honors Option Available)



• *The Brook Catering Company*

- Planning/Themes
 - Scaling Recipes
 - Ordering Groceries
 - Figuring Costs
- **TRANSFERRABLE DUAL CREDIT**
- **FSSM-CERTIFICATION - 5 year Ce**
- Plating/Garnishing/serving
 - Careers in Food Service
 - **CULIN 1120 3 dual credits**



Culinary Arts III /Hospitality-

(2 Semesters, Option to repeat; (Honors Option Available)
may double block with

- *The Brook Catering Company &*
 - Interview clients/Plan Events
 - Scaling Recipes/Ordering Groceries
 - Figuring Costs/Hotel & Restaurant Skills
- **TRANSFERRABLE DUAL CREDIT**
- Careers in Hospitality/ Restaurant Management/
- Tourism/Marketing/Front of the House
- **CULIN 1120 3 dual credits**



Fitness & Nutrition



- Inter-department co-taught between CTE and PE departments
- Can fulfill Physical Education graduation requirement
- 11 and 12 grades
- 1 year; repeatable

- **TRANSFERRABLE DUAL CREDIT**
- **CULIN 1109 1 Dual credit**
- Physical fitness with nutritional needs
- Lab experiences in nutritional food prep and conditional – such as yoga



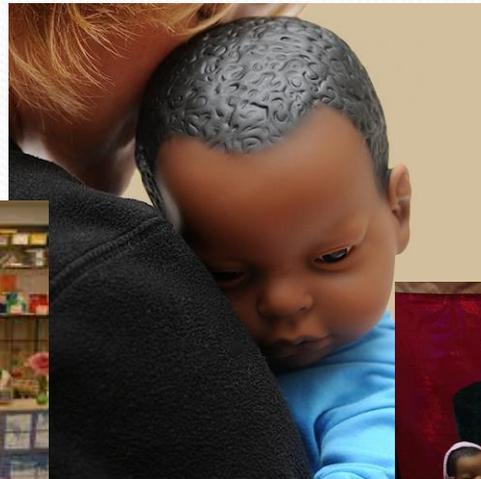
Human Growth & Child Development

(One Semester) (9, 10, 11, 12 grades)



- Learn techniques to promote healthy physical, social, emotional, intellectual, and moral development
- 2 of 4 EARLY CHILDHOOD CERTIFICATIONS VIA ECE GATEWAYS
- Weekend with Computerized “baby think it over”
- Care/Nutrition
- Parenting Styles
- Assisting/Observing

Little Warrior Preschool



Pre-School One

(One Semester) (ALL grades)

- Assisting/Observing Little Warrior Preschool
- Future career knowledge for teaching and other careers related to young children
- 4 EARLY CHILDHOOD CERTIFICATIONS VIA
- ECE GATEWAYS
- Poison Prevention Cert.



Pre-School Two - Practicum

(One Semester) (10, 11, 12 grades)

(sequence continues 11 & 12 grades as well)



- Research, explore, implement current teaching trends with a variety of needs in Little Warrior Preschool
- Gain advanced career knowledge for teaching and other child related Professions
- ASSIST LITTLE WARRIOR PRESCHOOL – with Preschool Interns
- Plan Lessons
- Create Bulletin Boards



PRESCHOOL TEACHING INTERNSHIP



- 1 semester – within Preschool I
- (Honors Option Available)
- 11 or 12 grade
- Enroll with Instructor approval
- Observe, plan, implement, and teach
- **Work as individual lead teacher in Little Warrior Preschool**
- Internship conducted during school day at WBHS
- **Infant, Child, Adult CPR Certification**
- **AED First Aid Certification**
- **DUAL CREDIT potential**



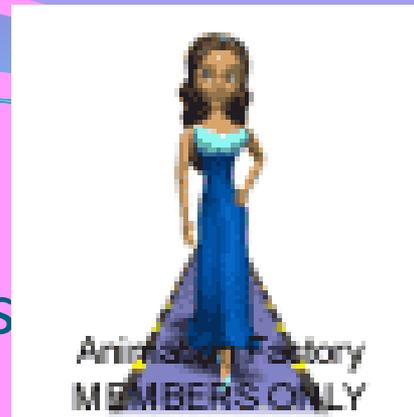
Fashion I

(One Semester) (9-12 grades)

- Personal Figure Analysis
- Sketching Designs
- Color Analysis
- Select Clothing for various Figures
- Select Shoes/Accessories
- Interested in Careers like in

Sweet Home Alabama

No Sewing Involved



Interior Design

(One Semester) (9 – 12 grades)

- Design Your Own Spaces
 - (Bedroom, Family Room)
- Use Color Schemes
- Draw Floor Plans
- Furniture Template
- Construction basics for the interior design industry
- Interest in *HGTV*, *Fixer Upper*, *Vacation House for Free* & other makeover home shows
- Also take Arch CAD 1 & 2 for Dual credit/ HONORS**





Industry & Technology

- Photography, Screen Printing
- Automotive, Engineering
- Woodworking, Technology & Computer Repair
- For college, career, & real world skills readiness...



Photography 1 & 2

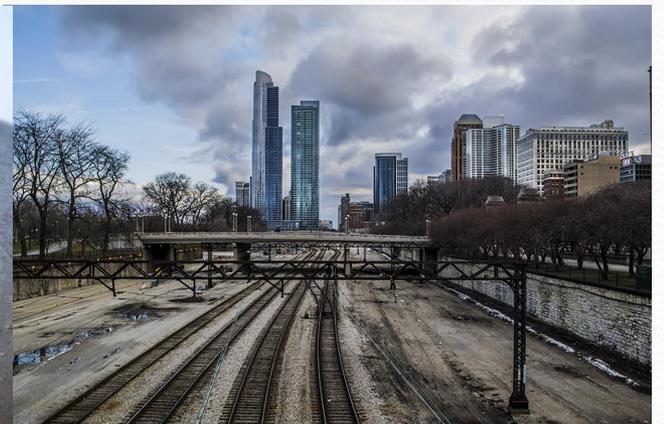
(One Semester Each) (10, 11, 12)

- Process Black/White Film
- Use “Dark Room” Techniques
- Learn to take Quality Pictures
- Photo Composition
- Digital Photography
- Chicago Field trips and beyond!
- **TRANSFERRABLE DUAL CREDIT**

Honors Options Available!

PHOTO 1100 3 dual credits

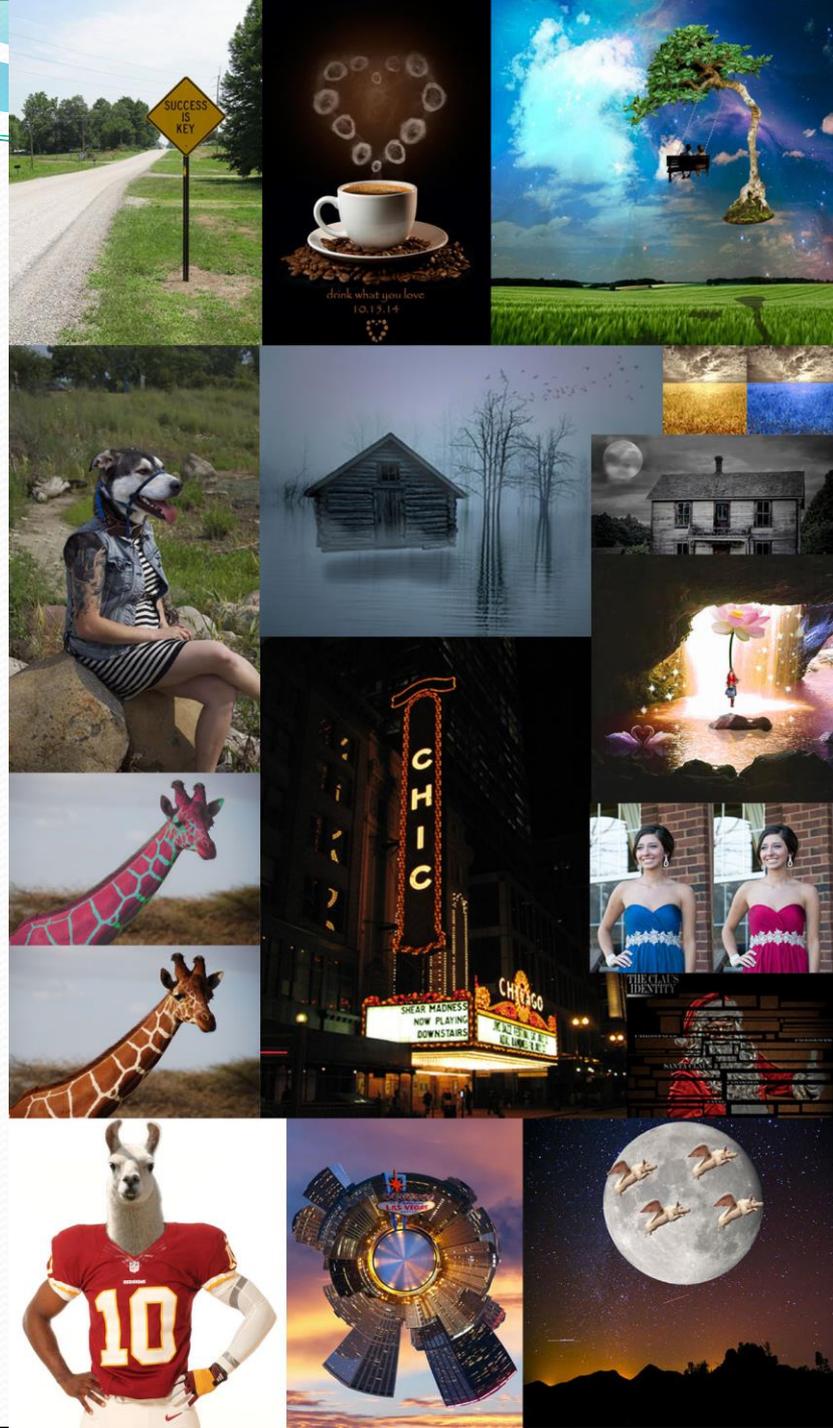
PHOTO 1102 3 dual credits



Digital Imaging

(One Semester) (9-12 grades)

- Explore applications of digital media
- Adobe PhotoShop- Editing and Manipulation of original student work
- Adobe LightRoom – Storage, organization and editing
- Chicago Field Trips!
- **TRANSFERRABLE DUAL CREDIT**
- **Honors Options Available!**
- **PHOTO 1101 3 dual credits**





Auto Maintenance/Upkeep

(One Semester) (9-12)

- Basic Operation and Upkeep for ALL current and future car owners
- fundamental knowledge and experience in owning and maintaining an automobile.



AUTOMOTIVE TECHNOLOGY I (Full Year – 1 Period 9-12)

- For students interested in becoming Automotive Technician &/or learn basic auto repair for personal use.
- Engines – rebuild, inspect, reassemble
- Brakes, Steering, Suspension and Wheel Alignments



- **TRANSFERRABLE DUAL CREDIT**
- **AUTO 1040 DUAL CREDIT**
- **SKILLS USA**



AUTOMOTIVE TECHNOLOGY I (Full Year – 1 Period 9-12)



- Automotive Technician skills and basic auto repair for personal use.
- Engines – rebuild, inspect, reassemble
- Brakes, Steering, Suspension and Wheel Alignments
- **TRANSFERRABLE DUAL CREDIT**
- **AUTO 1040**

JOIN OUR AWARD-WINNING TEAMS!



AUTOMOTIVE TECHNOLOGY II (Full Year – 1 Period 10-12)

- Engine Mechanical Diagnostics & Electrical
- Scanners & pressure testers
- Emissions analyzers
- Fuel injection
- Brake repair
- AC & transmissions
- **TRANSFERRABLE DUAL CREDIT**



AUTOMOTIVE TECHNOLOGY III, IV, V (Full Year 2 period blocks) **LIVE WORK**

- **NATEF** certification
- **Transferable Dual Credit**
- **HONORS CREDIT**
- **Auto 1, 2, and 3**
- **ASE Certifications**
- **SP/2 Certifications**



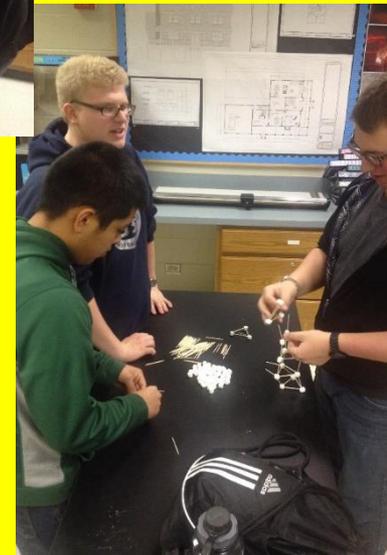
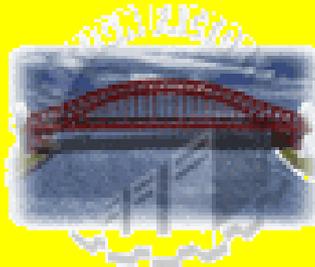
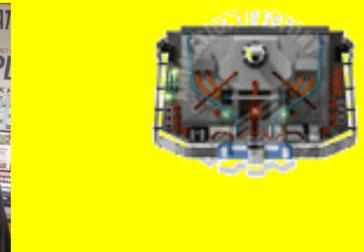
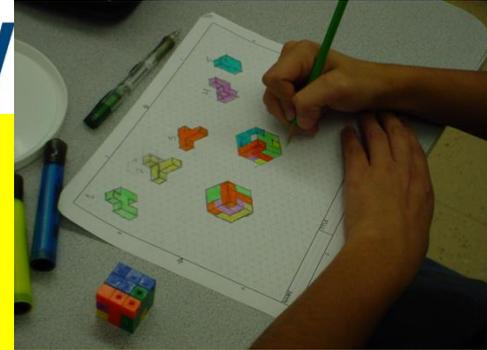
Introduction to Engineering Design



(Full year) (9-12 grades) -



- Future careers in ENGINEERING!
- use the design process and industry standard 3D modeling software to design solutions to solve problems.
- COLLEGE CREDIT: ISU, NIU, IOWA STATE, PENN STATE, DUKE (3 credits)
- MILWAUKEE SCHOOL OF ENGINEERING
- BRADLEY \$1000 SCHOLARSHIP
- U of IOWA - 3 credits for \$150
- Auto Desk, INVENTOR - 3D solid modeling design software
- Leads to Civil, Aerospace, Bio - Engineer careers
- STEM (Science, Technology, Engineering & Math)

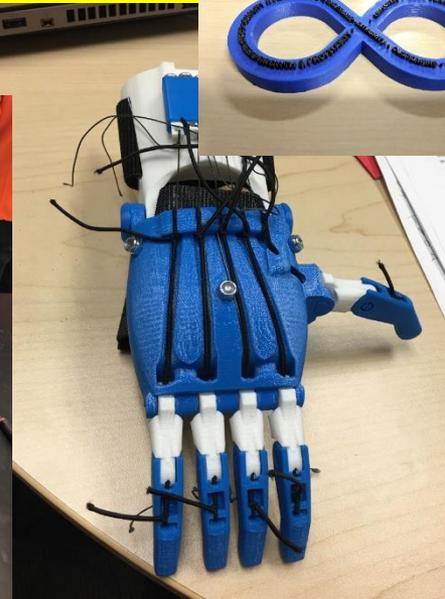
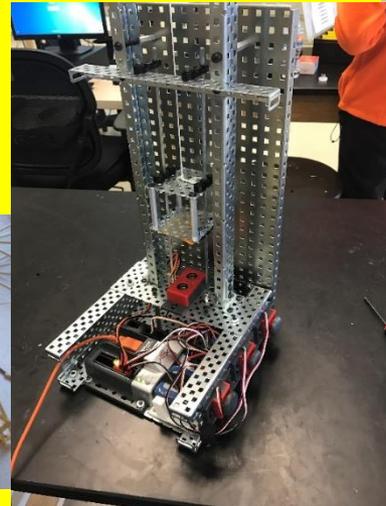
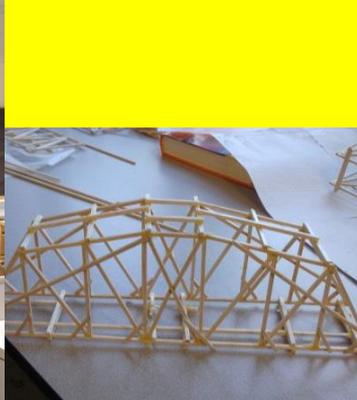
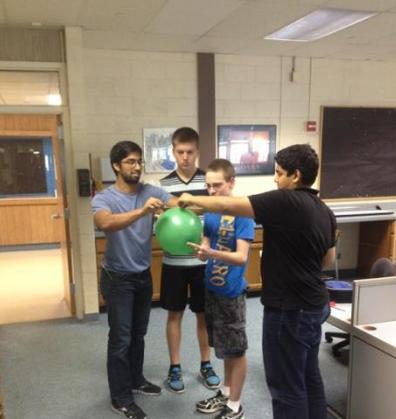


Principles of Engineering

(Full year) (10-12 grades) -



- Exposure to mechanisms, energy, statics, materials, & kinematics of Engineering careers
- COLLEGE CREDIT: ISU, NIU, U OF IOWA, IOWA STATE, PENN STATE, DUKE, MILWAUKEE SCHOOL OF ENGINEERING
- BRADLEY \$1000 SCHOLARSHIP; U of IOWA – 3 credits for \$150
- OAKBROOK CHAMBER/ CHAMBERLAIN GARAGE DESIGNS
- VEX KITS/ROBOTICS COMPETITIONS – 1ST PLACE!
- G-Suite Certifications
- INVENTOR – 3D solid modeling design software
- Leads to Civil Engineering, Architecture, BioTechnical, Aerospace, Digital Electronics, and Computer Integrated Manufacturing career majors.
- STEM (Science, Technology, Engineering & Math)

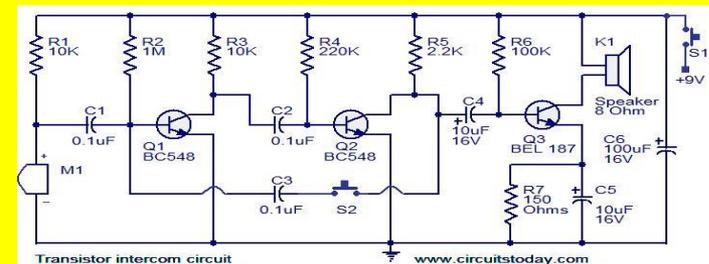


Digital Electronics

(Full year) (10-12 grades)



- Development and implementation of electronic components; electrical circuits, robots, sensors, motor controls and STEM; sequential logic, integrated circuit kits and microcontrollers
- COLLEGE CREDIT: ISU, NIU, U OF IOWA, IOWA STATE, PENN STATE, DUKE (3 credits)
- MILWAUKEE SCHOOL OF ENGINEERING
- BRADLEY \$1000 SCHOLARSHIP; U of IOWA – 3 credits for \$150
- Leads to Civil Engineering, Architecture, BioTechnical, Aerospace, Principles of Engineering, and Computer Integrated Manufacturing career majors.
- STEM (Science, Technology, Engineering & Math)
- Like Computer Science/ AP Computer Science – Math Dept? – also tied to CTE Engineering - BPA/ DECA JAVA script, programming



Architectural CAD Drafting & Design 1 & 2

One semester; **Honors & Dual credit**

(9-12 grades)

- **TRANSFERRABLE DUAL CREDIT**
- Building Codes
- Draw Residential Homes
 - 2D/3D Drawings
- Building a Model Home to Scale
- 3-D CAD software for rendering
 - Bricks, Granite, Cabinetry
- Energy Efficiency/green building practices
- Hand drafting
- **ARCH 1211 3 credit hours**
- OAKBROOK CHAMBER PARTNERSHIP
- Downtown Architectural Boat Tour Field trip

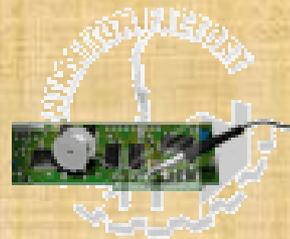


Computer Repair &

(One Semester each) (All grades)

Advanced Computer Repair

- **TRANSFERRABLE DUAL CREDIT**
- Designed to equip beginner and semi-experienced students with entry-level computer technician proficiency for career opportunities
- Physical Computer Operation
 - Hardware Components
 - Processor
 - Motherboard
 - Drives, power
 - Ram
 - Hands-On Lab Work
- COMPTIA A+ certification
- in Advanced level
- **CIT 1100 2 credit hours**
- **CIT 1111 3 credit hours**



Woods 1/ Woods 2

Woods 3 – (Independent study)

(Each One Semester) (All grades)

- Basic Woodworking skills
- Using Tools/Safety, Measurement
- Complex woods projects, safety, machine operation, finishing techniques
- Independent projects – hands-on creations
- Night stands, Adirondack chairs
- CISCO AND OHI Community Partnerships/Field trips



Screen Printing & Advanced Screen Printing

(One Semester Each) (9, 10, 11, 12)

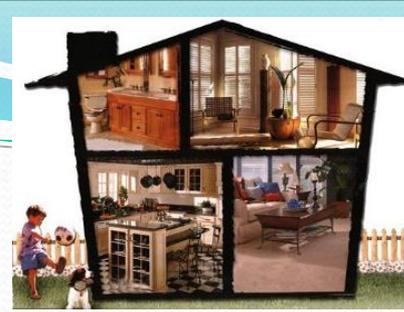
- Graphic Communications on a variety of materials
- Posters & Clothing - Tackle for Cure; Class T's, Lauren Kiefer
- Independent Projects
- Design & Displays



Building Trades 1 & 2

(One Semester each) (9-12 grades)

- Learn home maintenance & repair work as well as careers in the building trades
- Residential Roofing Systems
- Plumbing, Windows, Insulation
- Exterior/Interior Residential Walls
- Painting and design
- CISCO AND OHI Community Partnerships/Field trips
- MANY JOB OPENINGS!
- **CARPENTRY, WELDING, PLUMBING,**
- **ELECTRICIANS, TRADES PEOPLE NEEDED!!**



SOMETHING FOR EVERYONE IN CTE

**17 COURSES WITH 44 DUAL CREDITS,
16 COURSES WITH 27 CERTIFICATES,
20 HONORS OPTIONS, 15 UNIVERSITY CREDITS, 1 ONLINE**

- **ACCOUNTING 2 Honors** = **ACCOU 1110**
- **BUSINESS EXPLORATIONS** = **BUSIN 1111**
- **KEYBOARDING** = **OFTI 1100**
- **COLLEGE & CAREER TECH Honors** = **OFTI 1210**
- **COMMUNICATIONS TECH** = **OFTI 1250**
- **AUTOMOTIVE 1** = **AUTO 1040**
- **AUTOMOTIVE 2** = **AUTO 1110**
- **ARCH CAD & DESIGN 2 Honors** = **ARCH 1211**
- **PHOTOGRAPHY 1 Honors** = **PHOTO 1100**
- **PHOTOGRAPHY 2 Honors** = **PHOTO 1102**
- **DIGITAL PHOTO/IMAGING Honors** = **PHOTO 1101**
- **COMPUTER REPAIR** = **CIT 1100**
- **ADVANCED COMPUTER REPAIR** = **CIT 1111**
- **CULINARY 3 BROOK CATERING Honors** = **CULIN 1120**
- **CULINARY 3 HOSPITALITY Honors** = **CULIN 1120**
- **FITNESS & NUTRITION** = **CULIN 1109**
- **AVERAGE 3 CREDIT HOUR CLASS AT COD - \$475; AVERAGE 3 CREDIT HOUR CLASS AT U of I - \$1250**

CAREER & TECH ED

DECA

FCCLA

SKILLS USA

BPA

Remember ... C T E -
IT'S THE PLACE TO BE!

IT'S RIGHT FOR ME

Business, FACS, and IT!

DUAL CREDIT SEQUENCES:

- KEY/ CCT/ Communications TECH
- ACCOUNTING I/II
- **CULINARY I/II/III/ Hospitality**
- FITNESS & NUTRITION
- PHOTO I/II/ Digital
- **HG & CHILD/ PRESCHOOL I/II/Intern**
- ARCH CAD 1 & 2 Honors/Dual credit
- COMPUTER REPAIR/Advanced PC Repair
- AUTO I /II/III/IV/V
- IED/POE/DE



- ♥ BROOK CATERING
- ♥ LITTLE WARRIOR PRESCHOOL
- ♥ AUTO-ENGINES COMPETITION
- ♥ ENGINEERING CLUB



2020 SENIORS IN CTE:

- Jack, Priscilla, Derek, Honors Accounting 1/2, Speech TECH, Business Law Honors, Honors Entrepreneurship, Consumer, Honors Sports Marketing, Keyboarding, DECA, PLTW POE, Intro to Business, Online Consumer
- Andre, Ashlei- Brook Catering and Culinary 1,2,3
- Loren, Hannah Preschool Interns, Preschool 1&2, Human Growth Child Dev
- AJ, Caleb, Devin, Emilio; Fantastic 4, Autos 1, 2, 3, 4, 5;
- Alycia, John, Ashley, Luke- Photography 1, 2; Screen, Advanced Screen Printing, Digital Imaging, Woods,
- Sara, Jack Intro to Engineering Honors, Principles of Engineering Honors, Digital Electronics (PLTW), Arch CAD, Arch CAD 2,
- *PLEASE SEE ANY CTE TEACHER FOR QUESTIONS ABOUT CLASSES – or ANY OF THESE SENIORS ABOVE!!* Dual Credit
- Dept office A162; Mrs. Barney – CTE DC – A160
- CTE Classrooms: A303 308, 310, 312; A103, 105, 107; A119, 123, 129, 137



**ANDERSON, BARNEY, CHOJNACKI, LOPEZ,
ENNIS, NOWAK, SCAPARDINE,
DUNK, QUINN, VALA, ZWART**

QUESTIONS



Questions are the path to learning