



Career and Technical Education

The Road to Success ~ Willowbrook CTE



Mrs. Barney
CTE Dept Chair
2018



CTE Department

- Business Education
- Family and Consumer Science
- Industry and Technology

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
• KEYBOARDING	=	OFTI 1100 ---	3 credits
• COLLEGE & CAREER TECH Honors	=	OFTI 1210 ---	3 credits
• COMMUNICATIONS TECH	=	OFTI 1250 ---	3 credits *speech requirement *
• AUTO UPKEEP	=	AUTO 1040 ---	3 credits
• AUTOMOTIVE 1	=	AUTO 1110 ---	3 credits
• AUTOMOTIVE 3	=	AUTO 1100 ---	3 credits
• ARCH CAD Honors	=	ARCH 1211 ---	3 credits
• PHOTOGRAPHY 1	=	PHOTO 1100 ---	3 credits
• PHOTOGRAPHY 2	=	PHOTO 1102 ---	3 credits
• DIGITAL PHOTO/IMAGING	=	PHOTO 1101 ---	3 credits
• COMPUTER REPAIR	=	CIT 1100 ---	2 credits
• ADVANCED COMPUTER REPAIR	=	CIT 1111 ---	3 credits
• CULINARY 3 Honors	=	CULN1120 --	2 credits & FSSMCertification
• FITNESS & NUTRITION	=	PHYS 1554 --	1 credit
• PRESCHOOL INTERNS	=	PHYS 2254 --	3 credits – CPR, AED
• 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**
- 44 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***

Business Education



- According to Princeton Review—the number 1 major at colleges/universities in the United States is Business Administration and Management
- Why wait to learn about the business world???
- Get ahead of future class mates and coworkers by taking these classes now!
- <http://www.princetonreview.com/college>



KEYBOARDING/ WORD PROCESSING

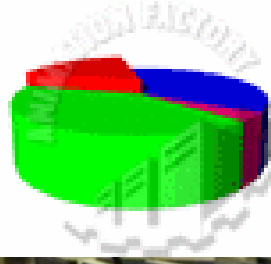


- One semester – grades 9–12
- Emphasis on improving speed/technique while keying accurately
- **TRANSFERS to most colleges & universities**
- Learn to format several documents – skills for personal & professional use
- Increase speed and accuracy for reports and **ONLINE TESTS: SAT/ACT/PARCC**
- **DUAL CREDIT transferrable TO or FROM COD for all 4 grades!**



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)
- **DUAL CREDIT**
transferrable TO or FROM
COD for all 4 grade levels!
- **#1 Need for current employers!**



COMMUNICATIONS TECHNOLOGY

(One Semester) Grades 10,11,12

- Able to use PowerPoint, Prezi, EMaze & other Presentation software while presenting speeches
- 4 Speeches : Personal, Career, Informative, Persuasive
- **DUAL CREDIT transferrable TO or FROM COD for all 9–12 grades! As OFTI (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

~ new 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!



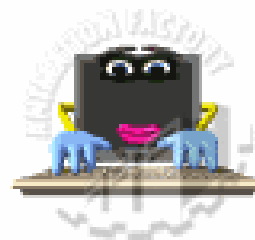
INTRODUCTION TO BUSINESS

(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
- **DUAL CREDIT transferrable TO or FROM COD – 1 OF ONLY 2 PROGRAMS IN DUPAGE COUNTY! 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 & field trips
- & MOCK TRIAL
- 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, Advisors, Athletes
- Marketing – Entertainment Industry
- International Business Advisors, Managers
- Music Industry; Online Companies, Magazines,

Sports Editors



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)

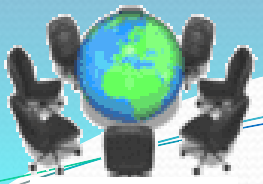


DECA – COMPETITIVE BUSINESS CLUB –

**Last month– Marketing at
United Center & BULLS GAME!**

- JAN– Regional Competition
- FEB – 12 STATE QUALIFIER





BUSINESS EXPLORATIONS

(One Semester) All grade levels

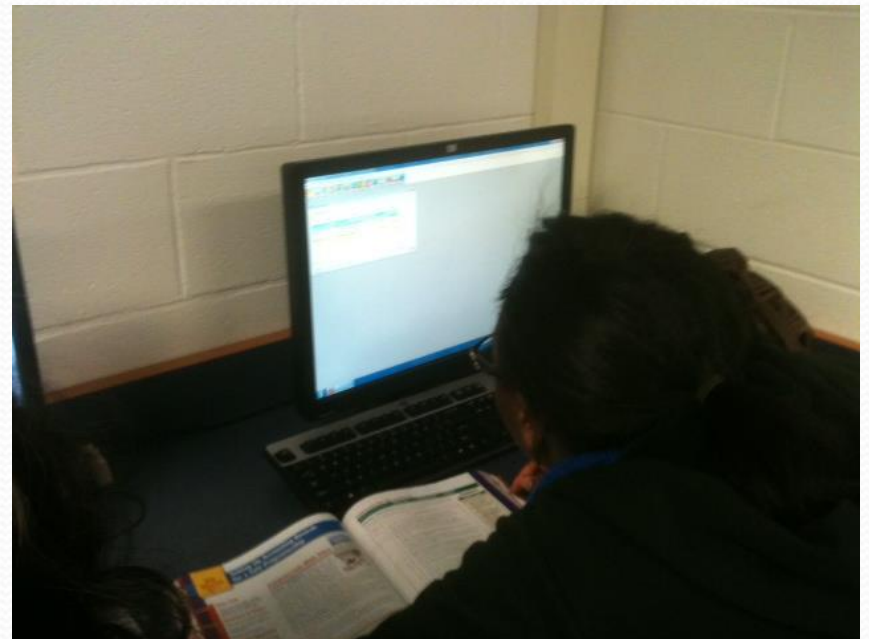
Discover a **variety of business fields of study and ranges of career opportunities**, technical and service based training, & future openings

- Advertising, Accounting, Law,
- Management, Marketing
- Desktop and Website Publishing
- International Business, Technology



FINANCIAL MATH

- Math skills for personal and corporate everyday use
- Loans & credit
- Home & Car ownership
- Profit & loss
- **SATISFIES Math graduation requirement**
- 11 & 12 grades only





Family and Consumer Science

- 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 100%**



Culinary Arts III –

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



• *The Brook Catering Company*

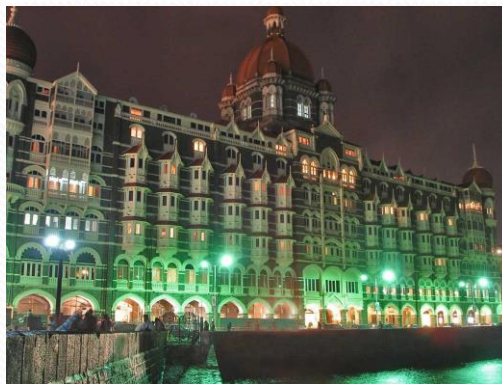
- Planning/Themes
- Scaling Recipes
- Ordering Groceries
- Figuring Costs
- **DUAL CREDIT** transferrable TO or
- **FROM COD** for all 4 grades! PLUS
- **FSSM-CERTIFICATION – 5 year Cert.**
- Plating/Garnishing/serving
- Careers in Food Service



Culinary Arts III /Hospitality–

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

- *The Brook Catering Company &*
 - Interview clients/Plan Events
 - Scaling Recipes/Ordering Groceries
 - Figuring Costs/Hotel & Restaurant Skills
- **DUAL CREDIT transferrable TO or**
 - **FROM COD for all 4 grades! PLUS**
- Careers in Hospitality/ Restaurant management/
- Tourism/Marketing/Front of the House



Fitness & Nutrition



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



- **DUAL CREDIT**
transferrable TO or FROM
COD for all grades
- 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



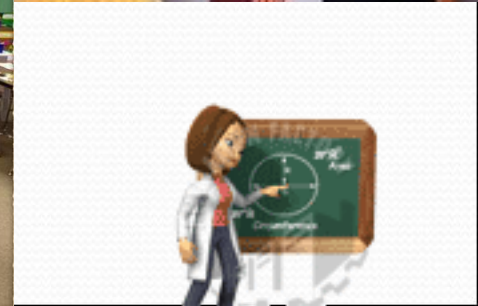
Pre-School One

(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

PreReq to DUAL CREDIT



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/II
- 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
- DUAL CREDIT transferrable TO or FROM COD for all grade levels – NEW 2016!!
- Infant, Child, Adult CPR Certification & AED Training



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, TV 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



Industry & Technology

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



Photography 1 & 2

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

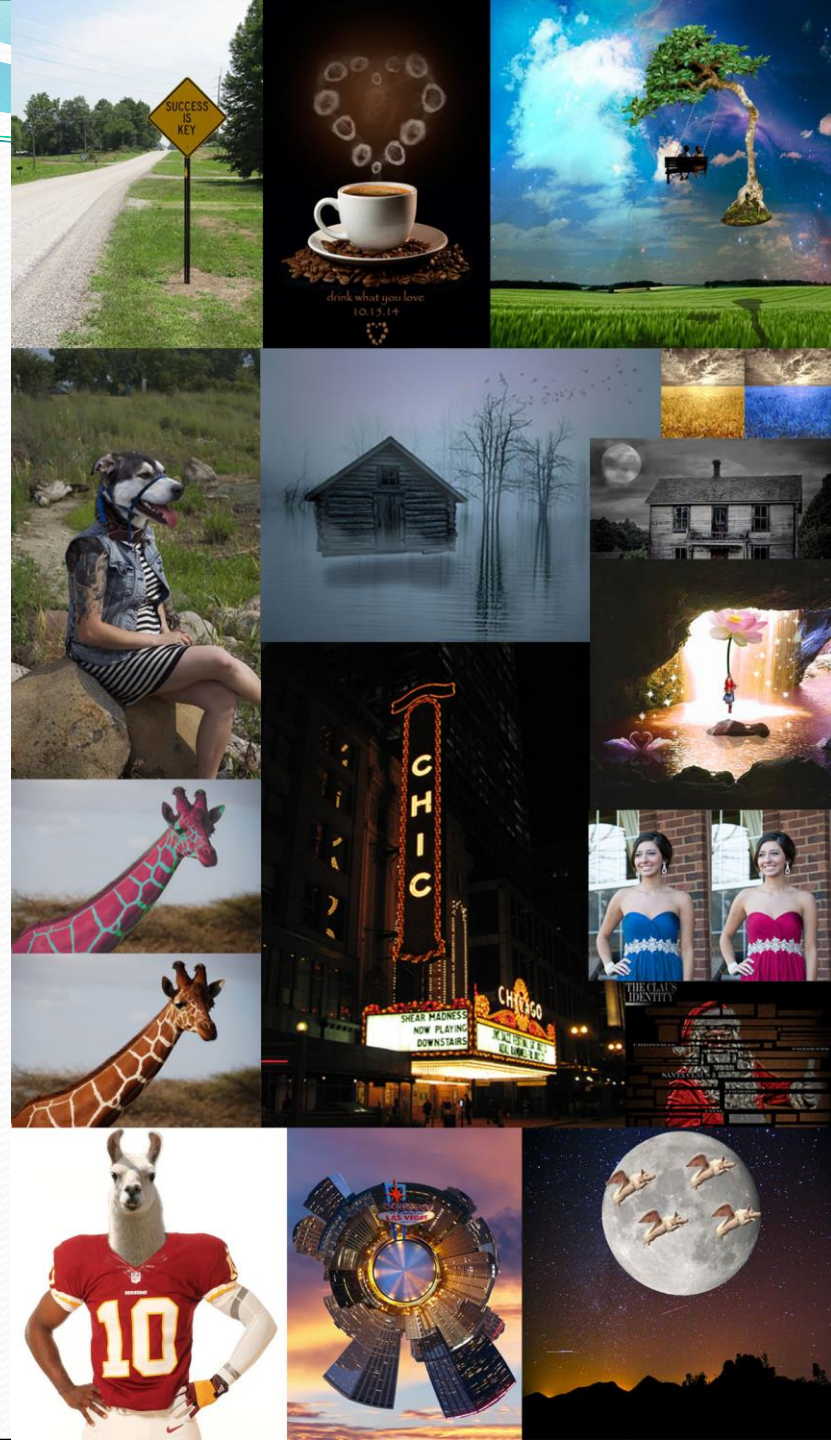
- Process Black/White Film
- Use “Dark Room” Techniques
- Learn to take Quality Pictures
- Photo Composition
- Digital Photography
- **EACH CLASS IS DUAL CREDIT transferrable TO or FROM COD!**



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
- **DUAL CREDIT** transferrable TO or FROM COD for all grade levels



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.
- **DUAL CREDIT** transferrable TO or FROM COD for all grade levels



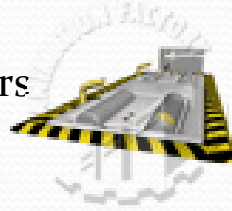
AUTOMOTIVE TECHNOLOGY I * (10-12)



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

AUTOMOTIVE TECHNOLOGY II (Full Year – 1 Period* 11, 12)

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



AUTOMOTIVE TECHNOLOGY III (Full Year – 1 Period* 12) or Internships

- COD for NATEF certification & dual credit * 3 hours
- Transferable Dual Credit – Engines;
- Auto 1
- 10-12 grade levels



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.

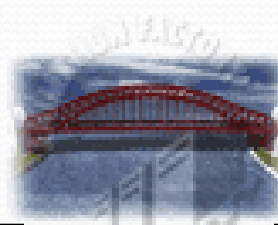
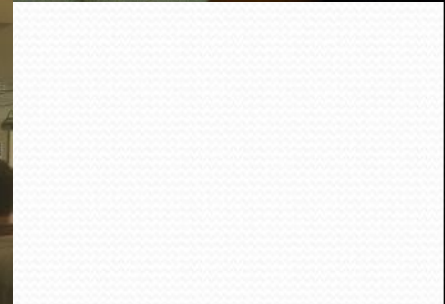
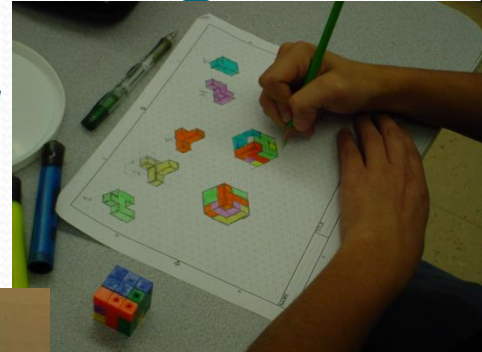
- COLLEGE CREDIT: ISU, NIU, IOWA PENN STATE, DUKE (3 credits)
- MILWAUKEE SCHOOL OF ENGINEERING
- BRADLEY \$1000 SCHOLARSHIP
- U of IOWA - 3 credits for \$150

- Auto Desk, INVENTOR –

- 3D solid modeling design software

- Leads to Civil, Aerospace, Bio – Engineer careers

- STEM (Science, Technology, Engineering & Math)

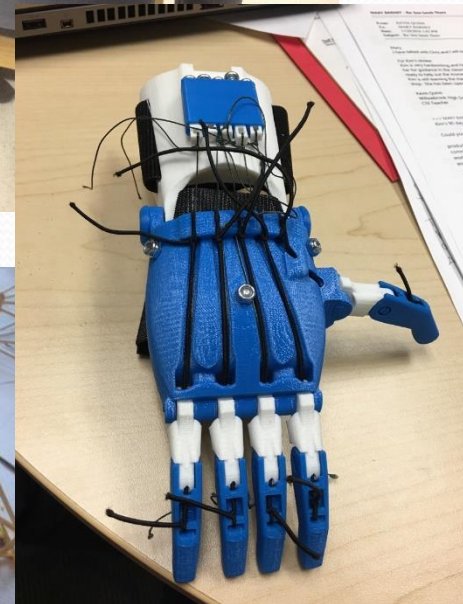
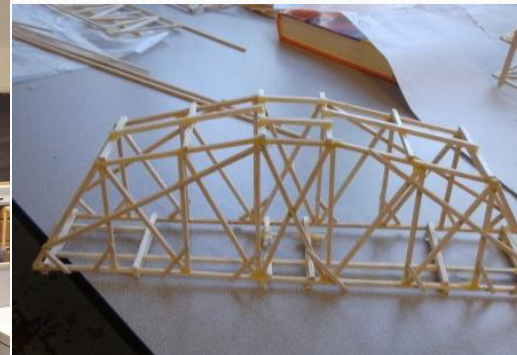
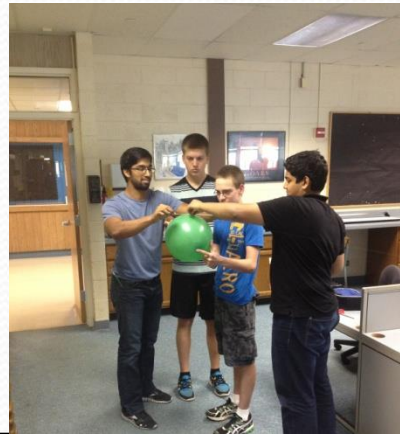
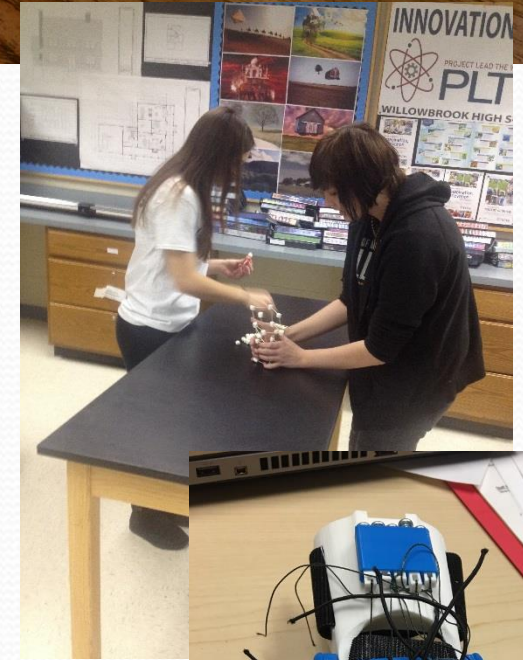


Principles of Engineering

(Full year) (10-12 grades) -



- Exposure to mechanisms, energy, statics, materials, and kinematics of Engineering careers
- 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
- 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)



Architectural Drafting (One Semester & Honors)

Civil Engineering & Architectural Drafting



(ONE YEAR – PLTW sequence) (all grades * prereq*)

- **DUAL CREDIT** transferrable TO/ FROM
COD for all grade levels – ARCH CAD

PLTW 3 credits – CEA – 1 year

- 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
- CEA – PLTW architectural drafting and engineering -
- COLLEGE CREDIT: ISU, NIU, U OF IOWA, IOWA STATE, PENN STATE,
- MILWAUKEE SCHOOL OF ENGINEERING
- BRADLEY \$1000 SCHOLARSHIP; U of IOWA – 3 credits for \$150



Computer Repair & Advanced Computer Repair

(One Semester each) (All grades)

- Each is **DUAL CREDIT** transferrable TO/ FROM COD for all grade levels – total of 5 credits
- 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

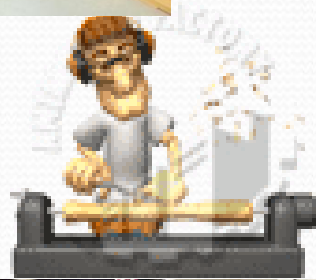


Woods 1/ Woods 2

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



Screen Printing & Advanced Screen Printing

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

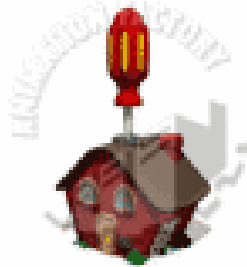
- Graphic Communications on a variety of materials
- Posters & Clothing - Tackle for Cure; Class T's, Lauren Kiefer
- Independent Projects
- Design & Displays



Home Repair and Maintenance

(One Semester) (9-12 grades)

- For students with interest in learning home maintenance and repair work as well as careers in the building trades
- Residential Roofing Systems
- Plumbing
- Windows
- Insulation
- Exterior/Interior Residential Walls
- Painting



	CTE DUAL CREDIT STATISTICS							
Barney								
WILLOWBROOK CTE DUAL CREDIT STATISTICS 2012 - 2018								
	FY 13	FY 14	FY 15	FY16	FY 17	Fall 2017	Spring 2018	FY 18
COURSES	1	7	11	13	13	15	15	15
SECTIONS	2	7	25	25	26	13	13	26
STUDENTS:								
RECEIVING CREDIT	10	139	591	676	780			
ELIGIBLE	60	167	628	684	803	422	436	858
% SIGNED UP	17%	83%	95%	99%	97%	98%		
% RECEIVING DUAL CREDIT	100%	100%	99%	99%	99%			
TOTAL CREDITS	20	407	1795	1740	1734	1266	1096	2362
TOTAL TUITION SAVINGS	\$ 3,200	\$ 66,200	\$ 271,000	\$ 292,000	\$ 373,000	\$227,880	\$197,280	\$ 425,160
			credits earned per course			15 COURSES	# CREDITS	
COURSES:	OFTI 1100	OFTI 1100	2	keyboarding		OFTI 1100	3	
		OFTI 1210	3	college tech		OFTI 1210	3	
		ACCY 1140	3	speech tech		OFTI 1250	3	
		AUTO 1040	4	accounting 2		ACCY 1110	3	
		PHOTO 1100	3	auto upkeep		AUTO 1040	3	
		PHOTO 1102	3	photo 1		PHOTO 1100	3	
		PHYS 1554	3	photo 2		PHOTO 1102	3	
			1	fit & nutrition		PHYS 1554	1	
			2	catering 3		CA 1120	2	
			3	computer repair		CIT 1100	3	
			3	arch cad		ARCH 1211	3	
			3	digital image		PHOTO 1101	3	
			3	preschool interns		PHYS 2254	3	
					AUTO 1	AUTO 1100	3	
					ADV PC REPAIR	CIT 1111	3	

CAREER & TECH ED

DECA

FCCLA

SKILLS USA

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

IT'S RIGHT FOR ME

Business, FACS, and IT!

DUAL CREDIT SEQUENCES:

- KEY/ CCTECH/ Communications TECH
- ACCOUNTING I/II
- **CULINARY I/II/III/ Hospitality**
- **FITNESS & NUTRITION**
- PHOTO I/II
- **HG & CHILD/ PRESCHOOL I/II/Intern**
- ARCH CAD/ CEA /
- COMPUTER REPAIR/Advanced PC Repair
- AUTO I /II/III & UPKEEP
- IED/POE/CEA



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

