



# Career and Technical Education

## The Road to Success ~ Willowbrook CTE



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
• 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 Honors	=	ARCH 1211 ---	3 credits
• ARCH CAD & DESIGN 2 Honors`	=	ARCH 1101 ---	3 credits
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• COMPUTER REPAIR	=	CIT 1100 ---	2 credits
• ADVANCED COMPUTER REPAIR	=	CIT 1111 ---	3 credits
• CULINARY 3 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
- 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\*

# CTE Department

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

# 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 9<sup>th</sup> 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!





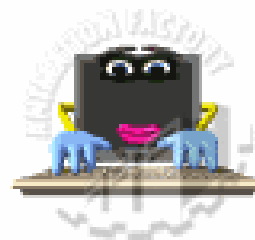
# INTRODUCTION TO BUSINESS

(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
- & 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 & Editors, Advisors, Athletes,
- Marketing – Entertainment Industry
- International Business Advisors, Managers
- Music Industry; Online Companies, Magazines,
- 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 –

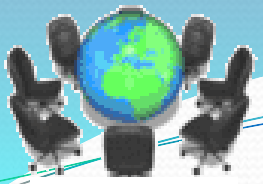
**Last month– Marketing at  
United Center & BULLS GAME!**

- JAN– Regional Competition
- FEB – 12 STATE QUALIFIERS!



Animation Factory  
MEMBERS ONLY





# 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





# 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**

92% -





# 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
- **DUAL CREDIT** transferrable TO or
- **FROM COD** for all 4 grades! PLUS
- **FSSM-CERTIFICATION** – 5 year Cert.
- Plating/Garnishing/serving
- Careers in Food Service



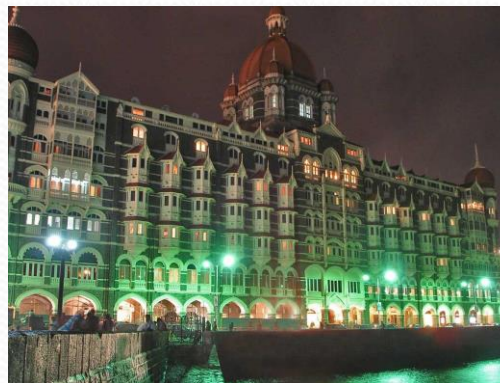


# New 2019

## 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**
  - **(Honors Option Available)**
- 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





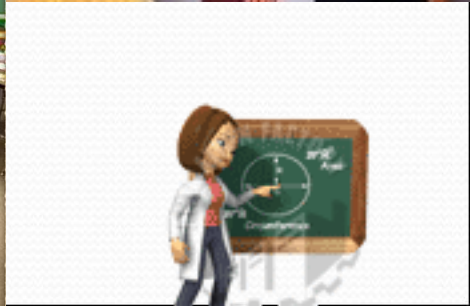
# Pre-School One

(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



Animation Factory  
MEMBERS ONLY



# 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
- (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

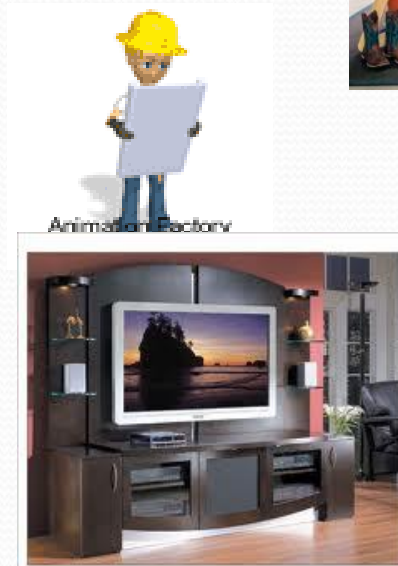




# Interior Design

(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 & Repair
- For college, career, and real world skills readiness...



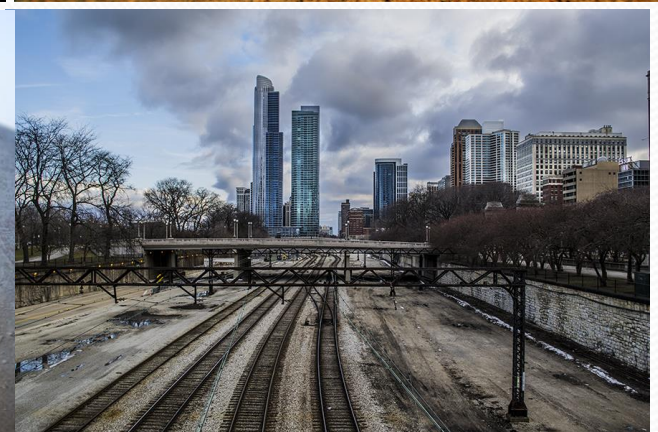
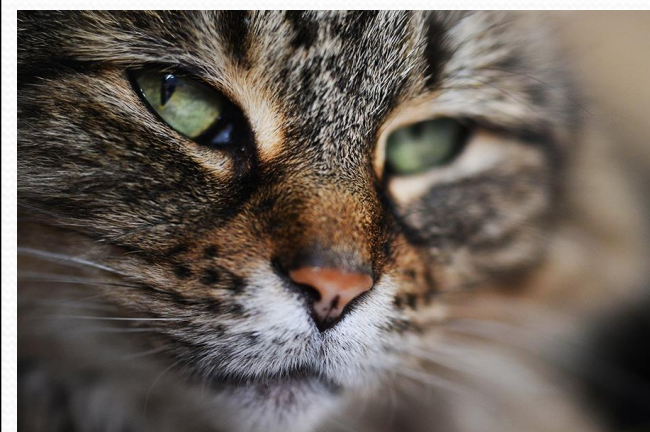


# Photography 1 & 2

(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!

**Honors** Options Available! 2019

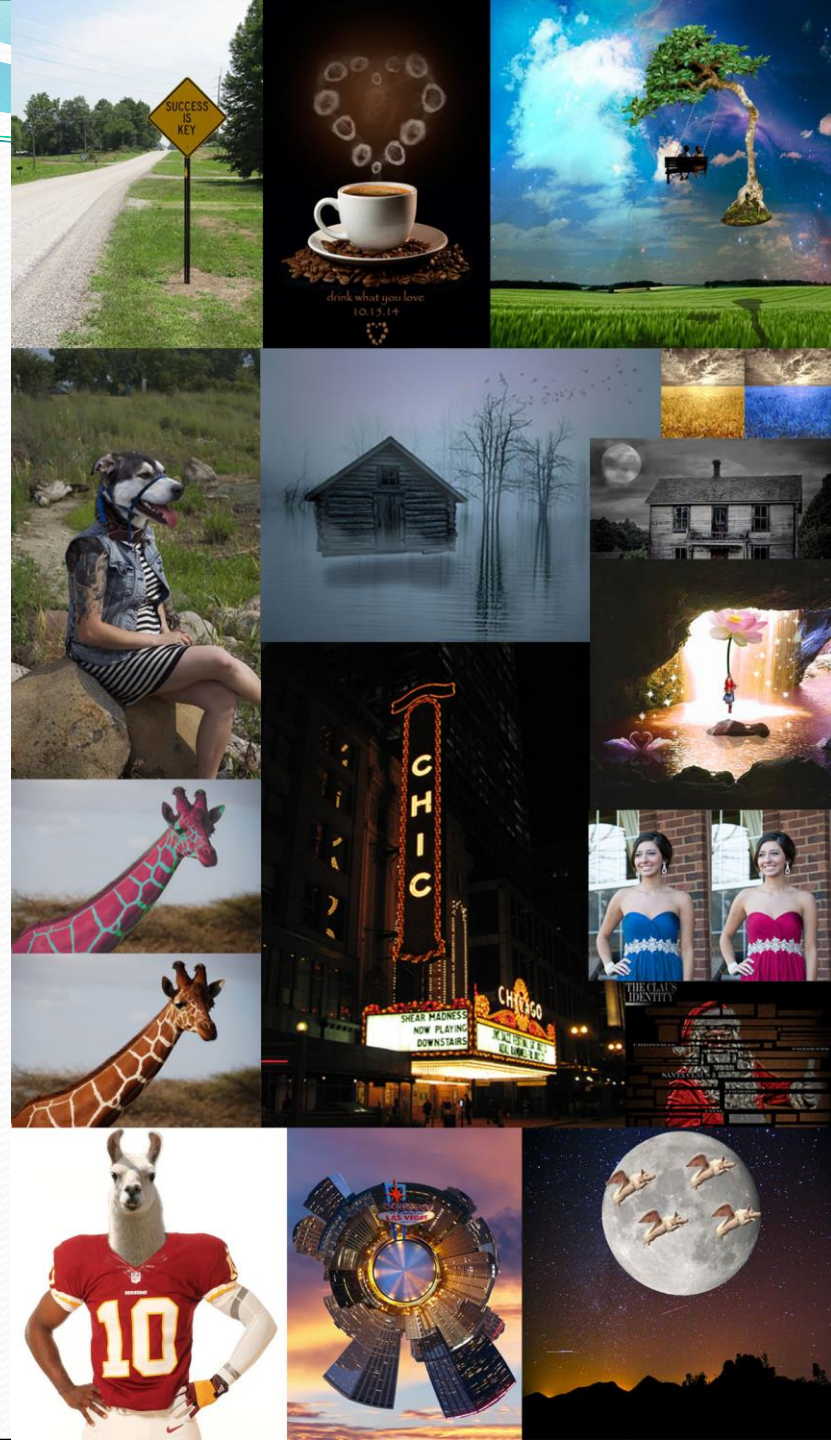




# Digital Imaging

(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**
- **Honors Options Available! 2019**

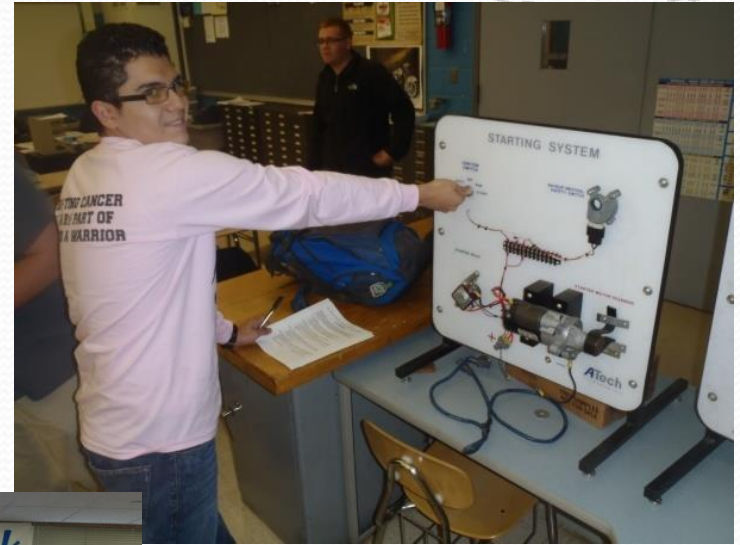




# Auto Maintenance/Upkeep

## (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
- **SKILLS USA**





# 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



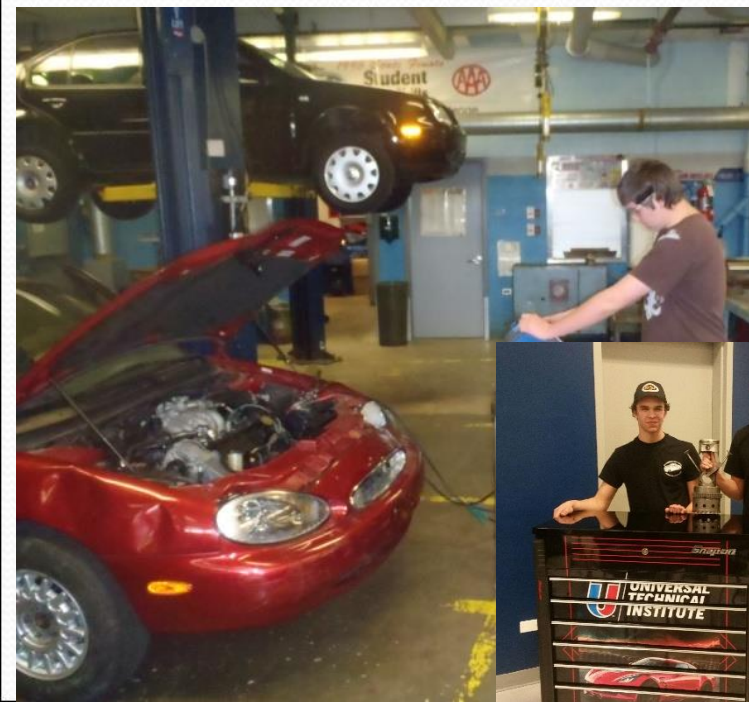
# AUTOMOTIVE TECHNOLOGY II (Full Year – 1 Period\* 11, 12)

- 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, 2, and 3 2019!
- 10-12 grade levels

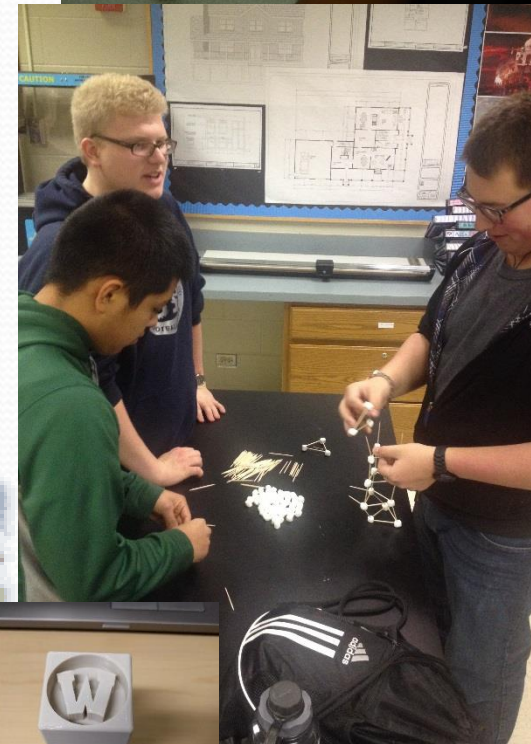
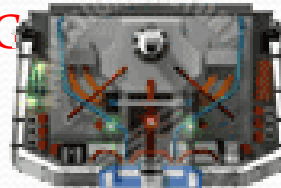
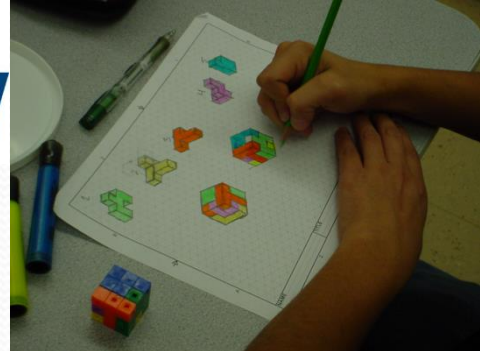




# Introduction to Engineering Design

(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, U OF IOWA, 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)



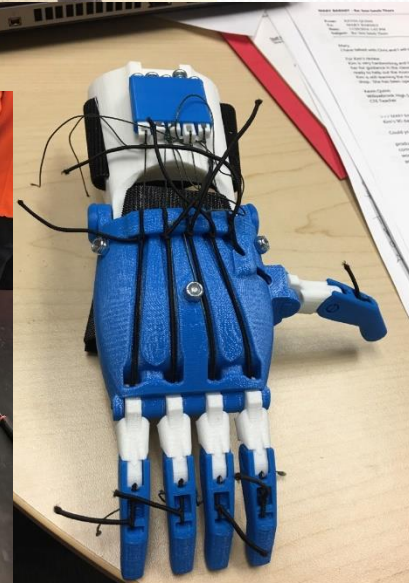
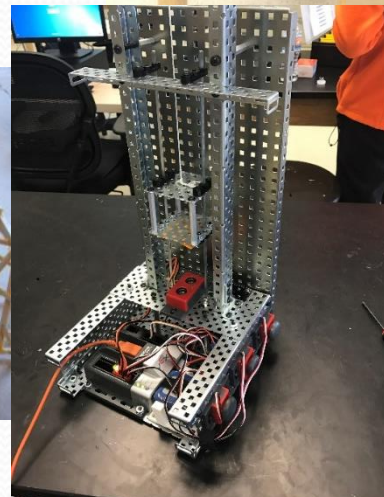
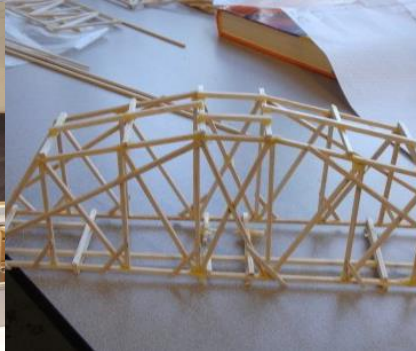
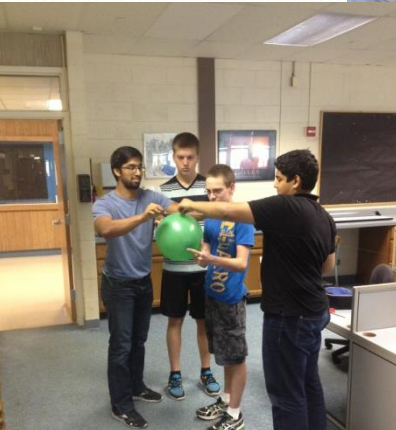
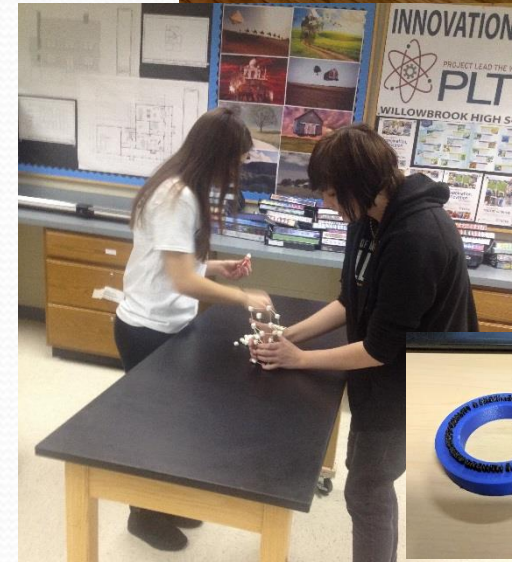


# Principles of Engineering

(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 ( 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 CAD Drafting & Design 1 & 2

## One semester; Honors & Dual credit

(9-12 grades)

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



# 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







# Digital Electronics

(Full year) (10-12 grades)



- Exposure to
  - 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

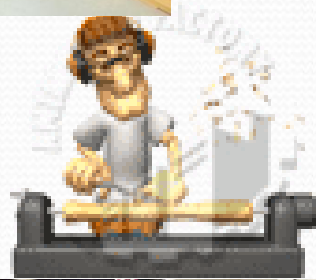


# Woods 1/ Woods 2

## 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





# Building Trades - formerly

## 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 and design
- HUGE NEED CURRENTLY
- MANY JOB OPENINGS!
- **CARPENTRY, WELDING, PLUMBING,**
- **ELECTRICIANS, TRADES PEOPLE NEEDED!!**





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	CTE DUAL CREDIT STATISTICS										140 tuition/fee, 40 text					
money	\$160/credit hour		\$160/credit hour		\$160/credit hour		\$180									
WILLOWBROOK CTE DUAL CREDIT STATISTICS 2012 - 2017																
	FY 13	FY 14	FY 15	Fall 2015	Spring 201	FY16	Fall 2016	Spring 2017	FY 17	Fall 2017	Spring 2018	FY 18	Fall 2018	Spring 2019	FY19	
COURSES	1	7	11	12	13	13	13	13	13	15	15	15	15	15	15	
ACTIONS	2	7	25	9	16	25	12	14	26	13	13	26	13	13	26	
STUDENTS:																
RECEIVING CREDIT	10	139	591	273	403	676	390	390	780	410	425	835	320			
ELIGIBLE	60	167	628	280	410	684	400	403	803	422	436	858	324	544	868	
SIGNED UP	17%	83%	95%	98%	98%	99%	98%	100%	97%	99%	100%	97%	99%			
RECEIVING DUAL CREDIT	100%	100%	99%	98%	99%	99%	99%	99%	99%	99%	99%	99%	99%			
TOTAL CREDITS	20	407	1795	766	974	1740	804	930	1734	1266	1096	2362	972	1452	2424	
TOTAL TUITION SAVINGS	\$ 3,200	\$ 66,200	\$ 271,000	\$121,280	\$170,720	\$ 292,000	\$144,720	\$ 228,280	\$ 373,000	\$227,880	\$197,280	\$ 425,160	\$174,960	\$261,360	\$ 436,320	
			credits earned per course				14 COURSES	# CREDITS		15 COURSES	# CREDITS		14 COURSES	# CREDITS		
COURSES:	OFTI 1100	OFTI 1100	2	OFTI 1100	2	keyboarding	OFTI 1100	2		OFTI 1100	3		OFTI 1100	3		
		OFTI 1210	3	OFTI 1210	3	college tech	OFTI 1210	3		OFTI 1210	3		OFTI 1210	3		
		ACCY 1140	3	OFTI 1250	3	speech tech	OFTI 1250	3		OFTI 1250	3		OFTI 1250	3		
		AUTO 1040	4	ACCY 1140	4	accounting 2	ACCY 1140	4		ACCY 1110	3		ACCY 1110	3		
		PHOTO 1100	3	AUTO 1040	3	auto upkeep	AUTO 1040	3		AUTO 1040	3		AUTO 1040	3		
		PHOTO 1102	3	PHOTO 110	3	photo 1	PHOTO 1100	3		PHOTO 1100	3		PHOTO 1100	3		
		PHYS 1554	3	PHOTO 110	3	photo 2	PHOTO 1102	3		PHOTO 1102	3		PHOTO 1102	3		
			1	PHYS 1554	1	fit & nutritio	PHYS 1554	1		PHYS 1554	1		CULIN 1109	1		
			2	CA 1120	2	catering 3	CA 1120	2		CA 1120	2		CULIN 1120	2		
			3	CIT 1100	3	computer re	CIT 1100	3		CIT 1100	3		CIT 1100	3		
			3	ARCH 1211	3	arch cad	ARCH 1211	3		ARCH 1211	3			3		
				PHOTO 110	3	digital imag	PHOTO 1101	3		PHOTO 1101	3		PHOTO 1101	3		
				PHYS 2254	3	preschool in	PHYS 2254	3		PHYS 2254	3			3		
			30		36			36		AUTO 1100	3		AUTO 1110	3		
			16 students declined					19 dropped at midterm		CIT 1111	3		CIT 1100	3		
			6 failed at finals					10 transferred before midterm								
										AUTO 1110	41			41		
											3 FY 19				FY 19	
											44					



# 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 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**





# 2019 SENIORS IN CTE:

- James, Tyler, Michael, Matt, Kianna, Richie, Jack Honors Accounting 1/2, Speech TECH, Business Law Honors, Honors Entrepreneurship, Consumer, Honors Sports Marketing, Keyboarding, DECA
- Ashley, Ashley– Brook Catering and Culinary 1,2,3
- Samantha, Katie, Megan, Preschool Interns, Preschool 1&2, Human Growth Child Dev
- Jenna, Nick, Matt, Zach, Caleb, Autos 1, 2, 3, 4, 5; Arch CAD,
- Jenna, Tony, Tommy, Noah, Delani, Adam, Tyler,– Photography 1, 2; Screen, Advanced Screen Printing, Digital Imaging, Woods, Computer Repair
- Connor Intro to Engineering Honors, Principles of Engineering Honors (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
- BARNEY, CHOJNACKI, LOPEZ, ANDERSON;
- ENNIS, NOWAK, SCAPARDINE,
- VALA, DUNK, QUINN, ZWART



# QUESTIONS

