





Career and Technical Education

The Road to Success ~ Willowbrook CTE



Mrs. Barney CTE Dept Chair



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

•	KEYBOARDING	=	OFTI 1100 - 2 credits
•	ACCOUNTING 2 Honors	=	ACCY 1140 - 4 credits
•	COLLEGE & CAREER TECH	=	OFTI 1210 - 3 credits
•	SPEECH TECHNOLOGY	=	OFTI 1250 – 3 credits

 AUTO UPKEEP 	=	AUTO 1040 - 3 credits
PHOTOGRAPHY 1	=	PHOTO 1100 - 3 credits
PHOTOGRAPHY 2	=	PHOTO 1102 - 3 credits
 DIGITAL IMAGING 	=	PHOTO 1101 – 3 credits
 COMPUTER REPAIR 	=	CIT 1100 - 2 credits
ARCH CAD	=	ARCH 1211 – 3 credits

- FITNESS & NUTRITION = PHYS 1554 1 credit
- CULINARY 3 = CULN1120 2 credits & FSSMCertification
- PRESCHOOL INTERNS = PHYS 2254 3 credits
- HUMAN GROWTH/CHILD DEV/ PRESCHOOL 1 * 4 state certifications/ University articulation
- ALSO Pending ECEC 1100 PRESCHOOL 2/INTERNS
- Pending AUTO 1110 3 credits Automotive 1 in progress

Savings:

- AVERAGE 3 CREDIT HOUR CLASS AT COD \$475
- AVERAGE 3 CREDIT HOUR CLASS AT U of I \$1240
- 35 total credit hours = over 1 year of college credit in CTE alone!



Business Education

- According to Princeton Review—the number 1 major at colleges/universities in the United States is <u>Business Administration and Management</u>
- 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

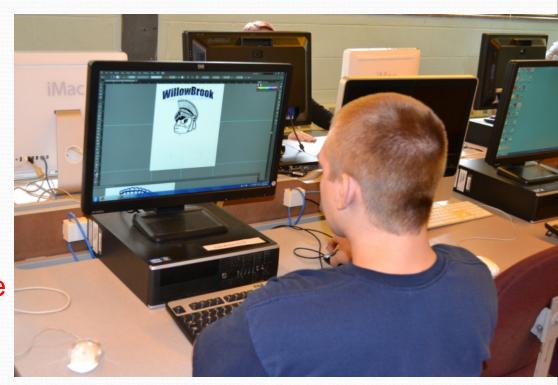


KEYBOARDING/ WORD PROCESSING

- 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 the upcoming New online ACT/PARCC EXAM

 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!





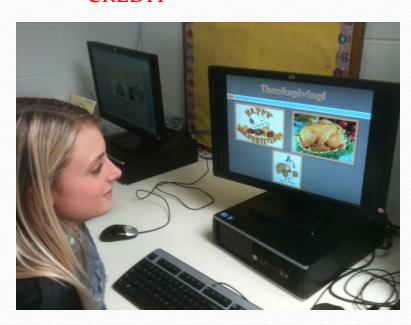




SPEECH TECHNOLOGY

(One Semester) Grades 10,11,12

- Able to use PowerPoint, Prezi & 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







(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



ACCOUNTING | / ACCY II

(Full Year Course) (10, 11, 12)

*2 Year sequence

- Business Terminology
- <u>MUST</u> 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! 4 credits!!

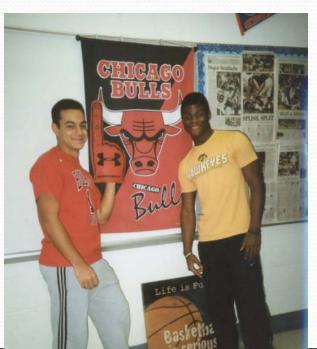




Sports and Entertainment Marketing

(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)

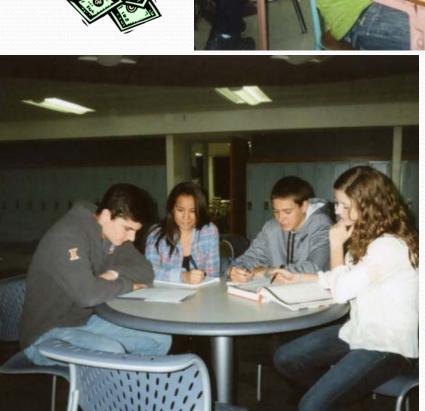
- Owning Your Own Business
- Research/Planning Venture
- Marketing Strategies
- Leadership Styles
- Managerial Skills
- Communication Skills
- Changes in the Workplace (Honors Option Available)

DECA – COMPETITIVE BUSINESS CLUB –

Last month- Marketing at United Center & BULLS GAME!

- JAN– Regional Competition
- FEB 12 STATE QUALIFIER







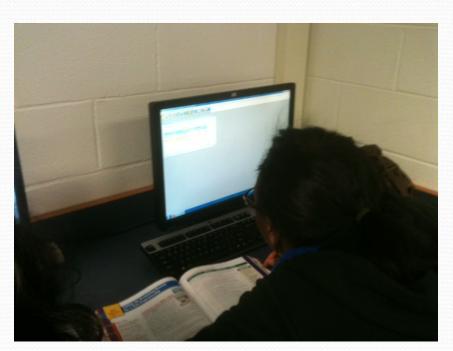


FINANCIAL MATH

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









• 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.



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



- 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











Fitness & Nutrition

- Inter-department cotaught 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





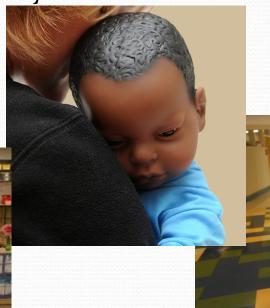
Human Growth & Child Development

(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 – <u>NEW 2016!!</u>
- 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!













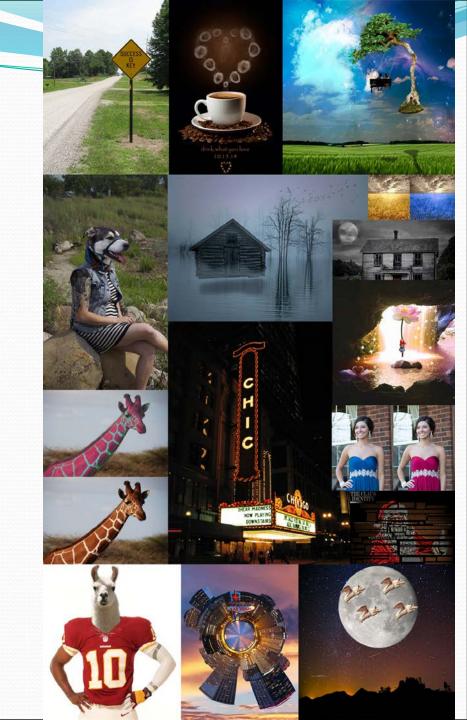




Digital Imaging

(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 -<u>new 2016</u>



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)

Animation Factory MEMBERS ONLY

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

For students interested in becoming Automotive Technician and/or learn basic auto repair for personal use.

personal use.

Engines – rebuild, inspect,

reassemble

Brakes, Steering, Suspension and Wheel Alignments

Engine Mechanical Diagnostics& Electrical

Scanners & pressure testers

Emissions analyzers

• Fuel injection

Brake repair

AC & transmissions



(Full Year – 1 Period* 12) or Internships



- Currently in progress with COD for NATEF certification
- Transferable Dual Credit – Engines;
- Auto 1
- 10-12 grade levels

Introduction to Engineering Design

(Full year) (9-12 grades) - in 4th year*

Future careers in ENGINEERING!

 use the design process and industry standard 3D modeling software to design solutions to solve problems.

• COLLEGE CREDT: ISU, NIU, U OF IOWA, IOWA STATE, PENN STATE, DUKE

- 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) - 3rd year offered

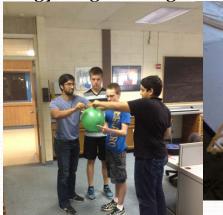
PLTW

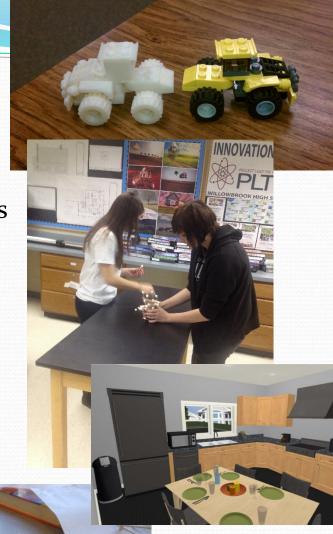
Exposure to mechanisms, energy, statics, materials, and kinematics of Engineering careers

- COLLEGE CREDT: ISU, NIU, U OF IOWA, IOWA STATE, PENN STATE, DUKE
- 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)

Civil Engineering & Architectural Drafting

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

DUAL CREDIT transferrable TO/ FROM
 COD for all grade levels – <u>ARCH CAD</u>

- 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 CREDT: ISU, NIU, U OF IOWA, IOWA
- MILWAUKEE SCHOOL OF ENGINEERING
- BRADLEY \$1000 SCHOLARSHIP; U of IOWA 3 credits for \$150







Computer Repair - new computers 2014

(One Semester) (All grades)



- Designed to equip beginner and semi-experienced students with entry-level computer technician profesience for career opportunities
- Physical Computer Operation
 - Hardware Components
 - Processor
 - Motherboard
 - Drives, power
 - Ram
 - Hands-On Lab Work
- Follows COMPTIA A+





Math elective choices:

see Mr. Bridges in A200 for more info

go well with PLTW /Computer Repair choices Computer Science

- Visual Basic Programming
- Honors Option

AP Computer Science

- JAVA Programming
- AP Credit

Computer Science 2: Mobile App Development

- New for 2015-2016
- Learn how to make Apps for Smart Phones
- Uses LUA language
- Honors Option

Woods I/ Woods II

(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









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





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







DUAL CREDIT - IN CTE

OFTI 1100 - 2 credits

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- FREE TUITION WITH CTE WBHS INSTRUCTORS

COMPUTER REPAIR

ARCH CAD

- KEYBOARDING **ACCOUNTING 2 Honors** ACCY 1140 - 4 credits **COLLEGE & CAREER TECH** OFTI 1210 - 3 credits SPEECH TECHNOLOGY **OFTI 1250 – 3 credits AUTO UPKEEP** AUTO 1040 - 3 credits PHOTOGRAPHY 1 PHOTO 1100 - 3 credits **PHOTOGRAPHY 2** PHOTO 1102 - 3 credits DIGITAL IMAGING **PHOTO 1101 – 3 credits**
- FITNESS & NUTRITION PHYS 1554 -- 1 credit
- **CULINARY 3** CULN1120 - 2 credits & FSSMCertification
- PRESCHOOL INTERNS PHYS 2254 - 3 credits & CPR/AED Certification

CIT 1100 - 2 credits

ARCH 1211 – 3 credits

- HUMAN GROWTH/CHILD DEV/ PRESCHOOL 1 * 4 state certifications/ University articulation
- ALSO Pending ECEC 1100 PRESCHOOL 2/INTERNS
- Pending AUTO 1110 3 credits Automotive 1 in progress w/ NATEF certification Savings:
- **AVERAGE 3 CREDIT HOUR CLASS AT COD \$475**
- AVERAGE 3 CREDIT HOUR CLASS AT U of I \$1240
- 35 total credit hours = over 1 year of college credit in CTE alone!
- (average semester at college = 15 credit hours)

C						
				SPRING 2015	&	FY 16
	FY 13	FY 14	FALL - 2014	YEAR LONG	FY 15 total	projected
COURSES	1	7	11		11 11	13
SECTIONS	2	7	10		15 25	25
STUDENTS:						
RECEIVING CREDIT	10	139	293		98 591	690
ELIGIBLE	60	167	308	3	20 628	700
% SIGNED UP	17%	83%	95%	95	5% 95%	98%
% RECEIVING DUAL						
CREDIT	100%	100%	100%	98	3% 9%	98%
TOTAL CREDITS	20	407	796	10	04 1795	1900
TOTAL TUITION	\$					
SAVINGS @ COD	3,200	\$ 66,200	\$ 119,825	\$ 151,175	\$ 271,000	\$292,000
8						
COURSES/CREDITS O	FTI 1100	OFTI 1100	OFTI 1100	keyboarding 2		
·		OFTI 1210	OFTI 1210	college tech 3		
		ACCY 1140	OFTI 1250	speech tech	3	
		AUTO 1040	ACCY 1140	accounting 2	ļ.	
		PHOTO 1100	AUTO 1040	auto upkeep 3	3	
8						PHOTO 1101 Digital
		PHOTO 1102	PHOTO 1100	photo 1	3	Imaging
		PHYS 1554	PHOTO 1102	photo 2		-0 0
			PHYS 1554	fit & nutrition 1		
			CA 1120	catering 3	· · ·	
			CIT 1111	computer repair 3		
			ARCH 1211	arch cad	3	
IN ADDITION TO COD DUAL CREDIT:		AUTO 1110	Auto 1 in progress with NATEF & COD			
Human Growth & Preschool1		*ECE - Gateway - 4 certifications; 3 hours articulated University				
PLTW – 3-6- 9 credits articulated		POE/IED		· ·	A - new 2016	

CAREER & TECH ED

DECA FCCLA FORD AAA 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/SPEECH TECH
- ACCOUNTING I/II
- CULINARY I/II/III
- FITNESS & NUTRITION
- PHOTO I/II
- HG & CHILD/ PRESCHOOL I/II/Intern
- ARCH CAD/ CEA / COMPUTER REPAIR
- AUTO I /II/III & UPKEEP
- IED/POE/CEA







2016 SENIORS IN CTE:

- Dan, Brandon, Zach, Max, Matt Accounting 1/2, Speech TECH, Business Law Honors, Entrepreneurship, Consumer, Sports Marketing, Keyboarding
- Anthony, Mark, Gio, Brook Catering and Culinary 1,2,3
- Emily, Maggie- <u>Preschool sequence</u>
- Vince, Max, Alex, James, Bryce Autos 1, 2, 3;
- Jordan, Bryce, Silver, Arch CAD, Screen Printing
- Jonathon, Zach, Sean Photography 1, 2; Digital Imaging
- Joe, Amos, Guillermo, Intro to Engineering, Principles of Engineering (PLTW)
- Alex, Teddy Woods 1
- PLEASE SEE ANY CTE TEACHER FOR QUESTIONS ABOUT CLASSES or ANY OF THESE SENIORS ABOVE!! Dual Credit
- Dept office A161; Mrs. Barney CTE DC A160
- CTE Classrooms: A303 308, 310, 312; A103, 105, 107; A119, 123, 129, 137
- BARNEY, CHOJNACKI, LOPEZ, NGO; ENNIS, SCAPARDINE, NOWAK, DUNK, VALA, QUINN, ZWART

QUESTIONS



2015 SENIORS IN CTE:

- Joe, James, Liam, Alexis Accounting 1/2, Consumer, Speech TECH, Business Law Honors, Entrepreneurship, IED,
- Juan, JJ Brook Catering and culinary classes, ACCY 2
- Sarah Preschool sequence
- Vince, Josh, Austin, Rob Brian, -Auto 1, 2, 3; Woods 1
- Morgan & Caitlyn Photography, Screen Printing, Digital Imaging
- Austin, Kevin, Intro to Engineering, Principles of Engineering (PLTW) Auto ½, Arch CAD
- PLEASE SEE ANY CTE TEACHER FOR QUESTIONS ABOUT CLASSES or ANY OF THESE SENIORS ABOVE!!
- Dept office A161; Mrs. Barney CTE DC A160
- CTE Classrooms: A303 308, 310, 312; A103, 105, 107; A119, 123, 129, 137
- BARNEY CHOJNACKI DEGEORGE LOPEZ; ENNIS, SCAPARDINE, NOWAK, CHABALOWSKI, DUNK, VALA

2014

SENIORS IN CTE:

- Robert and Omer: Accounting, Intro to Business, Consumer, Business Explorations, Speech TECH, Business Law Honors, Entrepreneurship, Sports Marketing, Digital Imaging, Screen Printing, AUTO 1, Woods 1, Home Repair, Computer Repair
- Jada Brook Catering and culinary classes
- Billy Intro to Engineering
- Zena, Morgan, and Caitlyn Photography, Screen Printing, Digital Imaging
- Joe and Jon Woods, Auto 1, 2
- PLEASE SEE ANY CTE TEACHER FOR QUESTIONS ABOUT CLASSES OR ANY OF THESE SENIORS ABOVE!!
- Dept office A161; Mrs. Barney CTE DC A160
- CTE Classrooms: 308, 310, 312; 103, 105, 107; 119, 123, 129, 137