



**LA PORTE COUNTY CAREER
& TECHNICAL EDUCATION**

A.K. SMITH CAREER CENTER

Data Report 2012



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Programs & Instructors

Advanced Manufacturing.....	Christopher Smith
Automotive Technology.....	Kenneth Patterson
Construction Technology	Terrence Hektoen
Cosmetology	Prestige College of Beauty
Culinary Arts	Lauren Santana
Early Childhood Education	Sarah Shriner
Electronics & Computer Technology	Craig Lindgren
Facility Maintenance.....	Louise Phillips
Health Academy I.....	Lee Ann Leady
Health Academy II.....	Jane Neulieb
ICE (Interdisciplinary Cooperative Education)	Megan Schroeder
Welding Technology	Kimberly Rosenbaum



Participating Schools

Public Schools

Indiana

Lacrosse High School

LaPorte High School

Michigan City High School

New Prairie High School

South Central High School

Westville High School

Michigan

New Buffalo High School

River Valley High School

Parochial Schools

Marquette High School

ACTED Agreed Upon Level Report 2011-2012
FINAL PERFORMANCE LEVELS

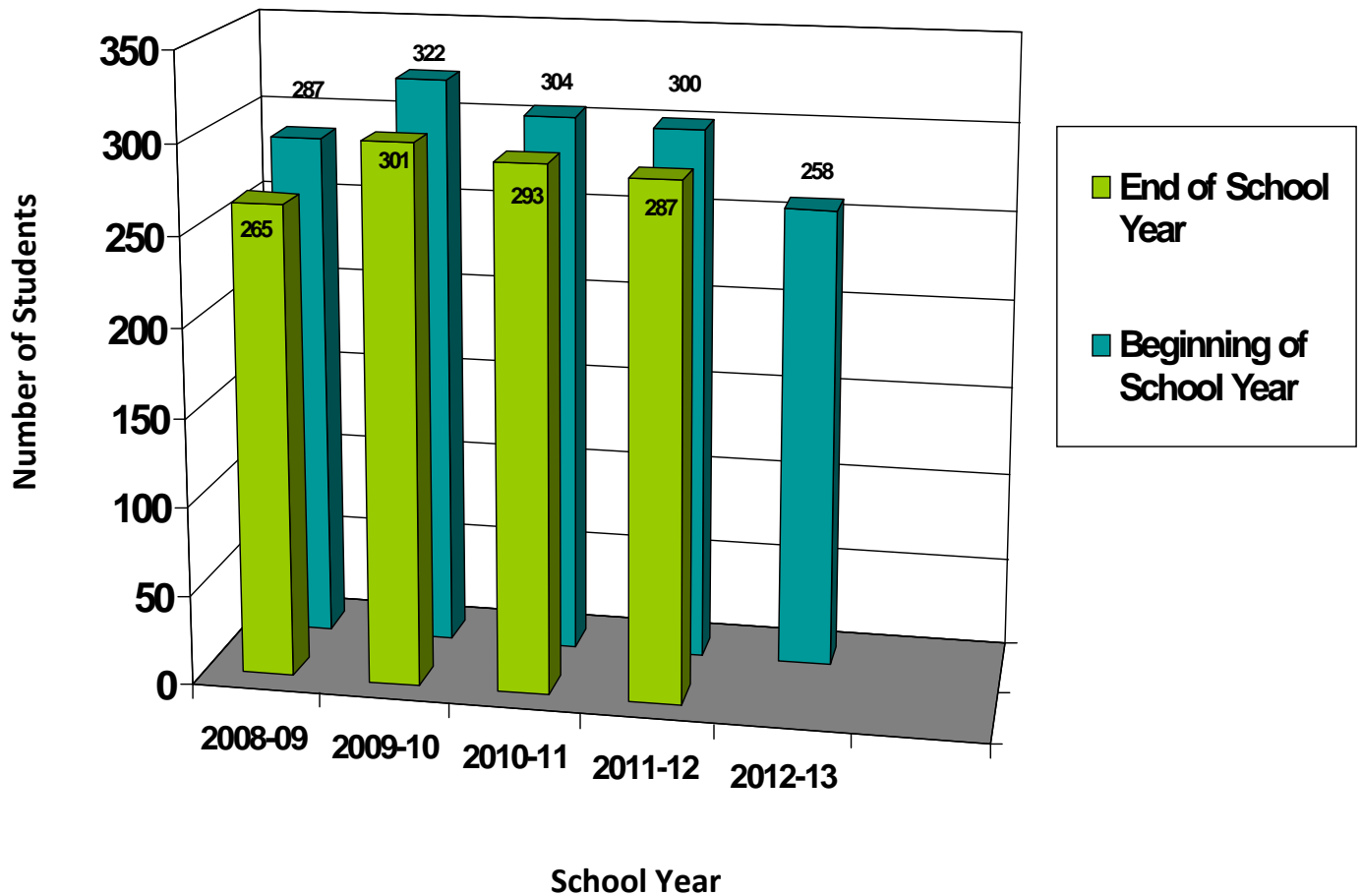
A. K. Smith Area Career Center													
ACTED 6													
Core Indicator	State AUL 08-09	Local AUL 08-09	ACTED Level 08-09	State AUL 09-10	Local AUL 09-10	ACTED Level 09-10	State AUL 10-11	Local AUL 10-11	ACTED Level 10-11	State AUL 11-12	Local AUL 11-12		
1S1 Academic Achievement Lang Art	73.00%	73.00%	79.81%	69.00%	69.00%	56.35%	72.44%	72.44%	80.39%	75.03%	75.03%		
1S2 Academic Achievement Math	71.00%	71.00%	78.85%	67.00%	67.00%	65.03%	70.67%	70.67%	78.73%	73.00%	73.00%		
2S1 Technical Skill Attainment	85.00%	93.50%	0.00%	80.00%	88.50%	40.00%	83.00%	88.50%	100.00%	85.50%	91.00%		
3S1 Completion	89.00%	91.00%	89.74%	89.25%	91.25%	96.81%	90.50%	92.50%	98.10%	91.25%	93.25%		
4S1 Graduation (NCLB)	89.00%	89.00%	90.41%	90.67%	90.67%	92.09%	92.00%	92.00%	95.61%	93.15%	93.15%		
5S1 Placement	80.00%	86.00%	86.60%	75.00%	75.00%	96.34%	77.78%	77.78%	94.38%	80.28%	80.28%		
6S1 Non-Trad Participation	11.00%	9.00%	31.31%	11.25%	9.25%	30.44%	20.00%	18.00%	29.44%	30.00%	25.33%		
6S2 Completion	11.00%	10.00%	0.00%	13.00%	12.00%	7.89%	22.67%	21.67%	28.67%	31.00%	22.77%		
2X Post Secondary Enrollment	N/A	N/A	37.16%	N/A	N/A	39.18%	N/A	38.47%	44.78%	N/A	39.47%		
3X Cluster Match	N/A	N/A	14.71%	N/A	N/A	12.31%	N/A	15.05%	20.00%	N/A	16.05%		
4X Industry Cert./ Licensing	N/A	N/A	0.66%	N/A	N/A	0.24%	N/A	0.73%	92.00%	N/A	1.73%		
5X Dual Credit	N/A	N/A	8.94%	N/A	N/A	2.42%	N/A	5.31%	5.51%	N/A	6.31%		
6X Remediation	N/A	N/A	19.20%	N/A	N/A	22.73%	N/A	14.81%	25.97%	N/A	13.81%		
7X COMPLETION RATE	N/A	N/A	7.57%	N/A	N/A	12.34%		13.31%	68.10%	N/A	14.31%		
8X Academic Achievement Lang Art / LAST TEST					N/A	76.19%		76.44%	74.77%	N/A	77.44%		
9X Academic Achievement Math / LAST TEST					N/A	82.35%		82.60%	80.27%	N/A	83.60%		

 BELOW
 MET OR EXCEEDED
 NEED AN IMPROVEMENT PLAN
 NEED AN IMPROVEMENT PLAN (year 2)
 NEED AN IMPROVEMENT PLAN (year 3)
 NEW INDICATORS TO BE REPORTED IN 2009/2010 (BASELINE)
 FAILED INDICATOR NO IMPROVEMENT PLAN REQUIRED

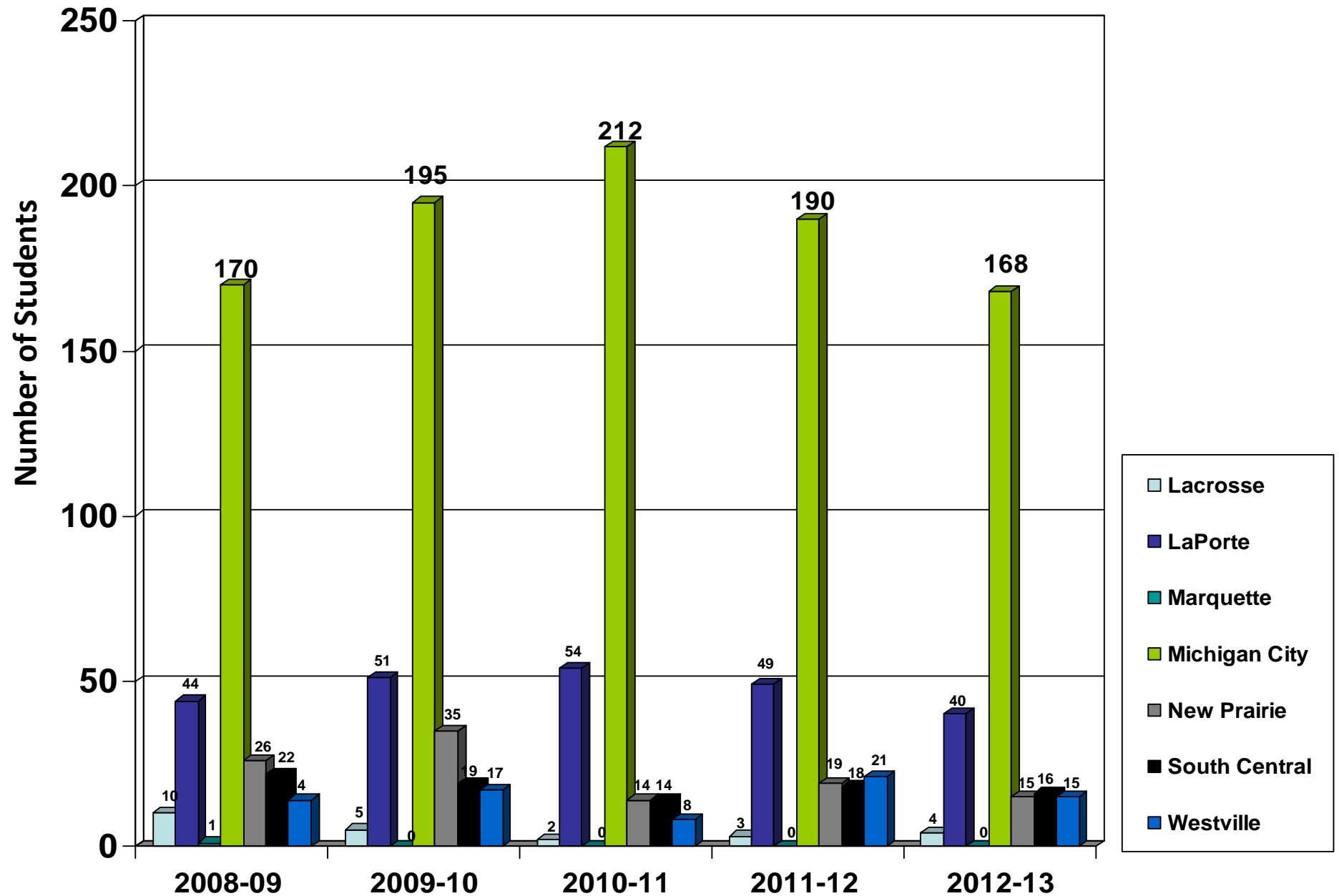


Enrollment/Retention History

5-Year Enrollment (Beginning vs. End of Year)



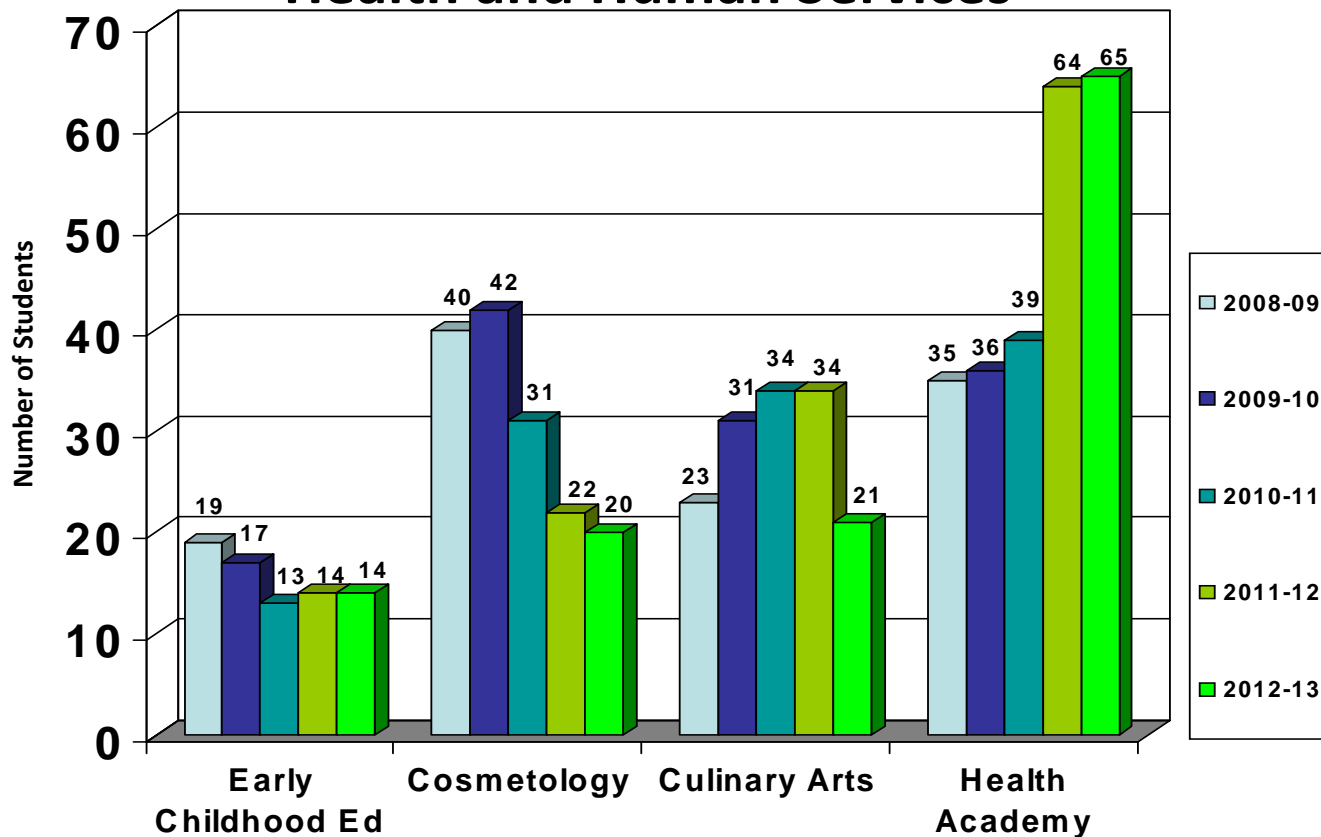
5-Year Enrollment by School



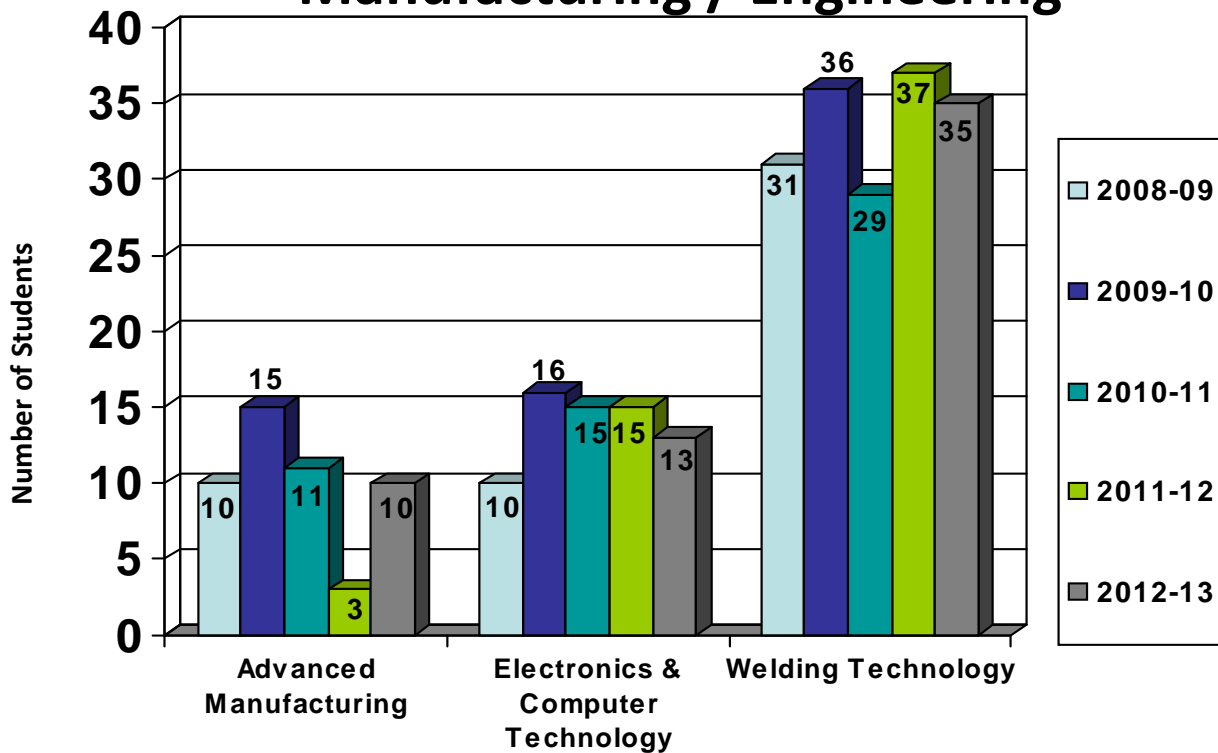


Enrollment by Course Cluster

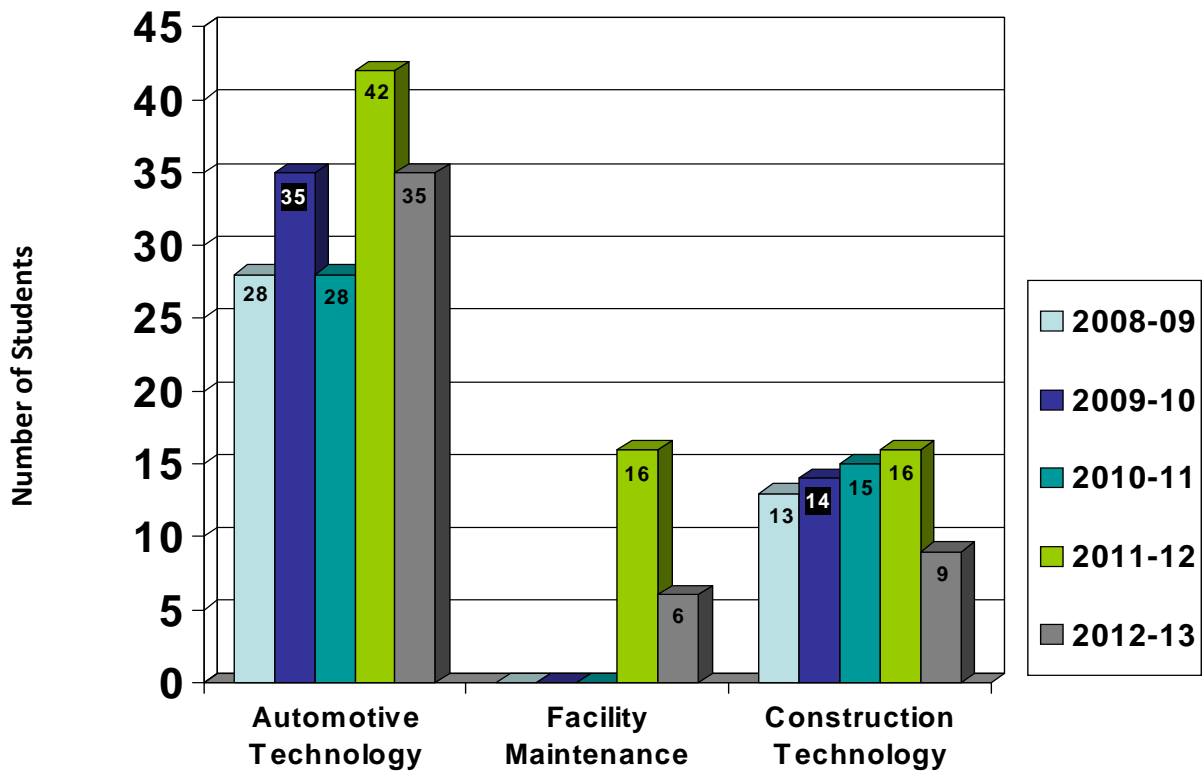
Health and Human Services



Manufacturing / Engineering



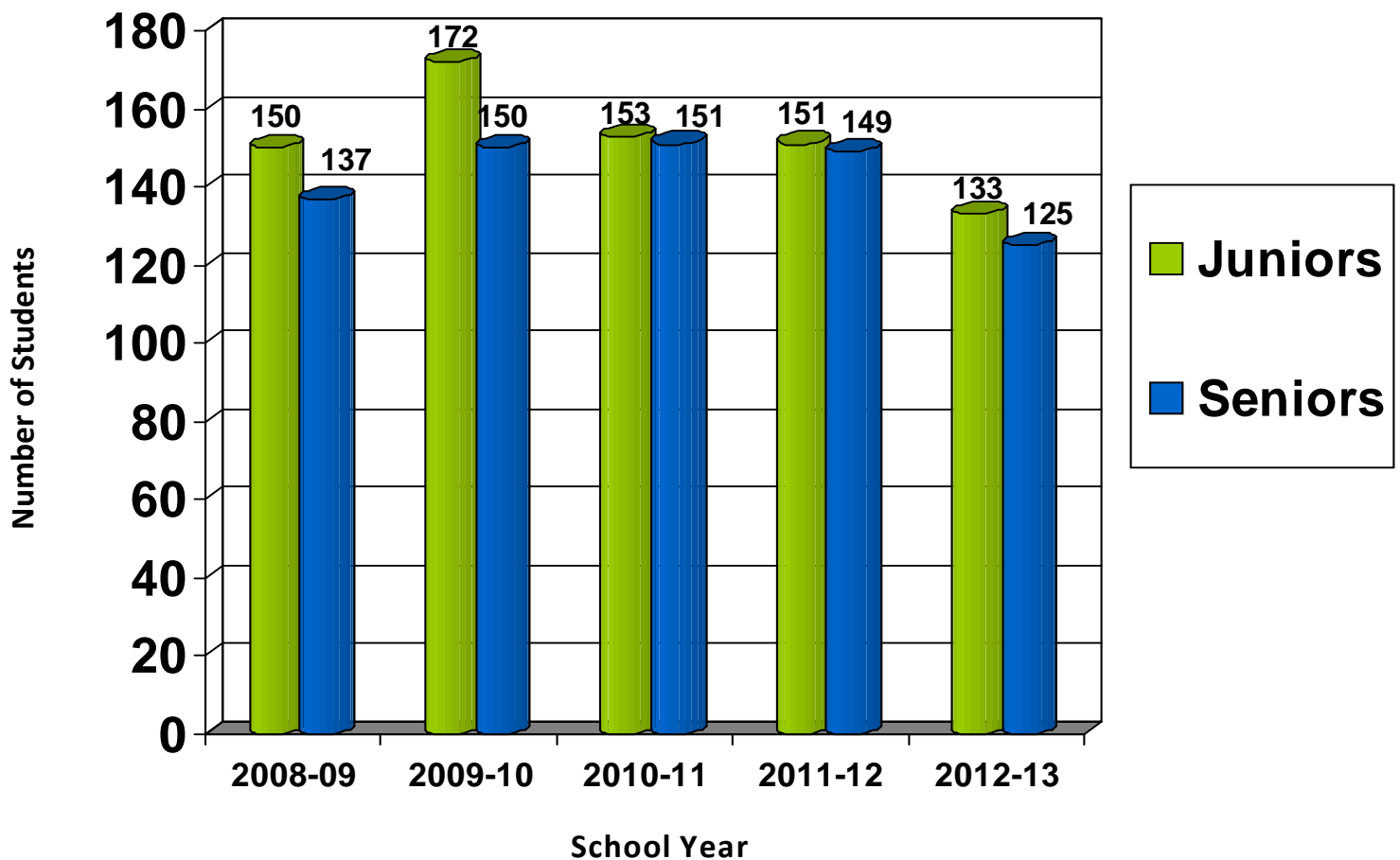
Construction and Transportation



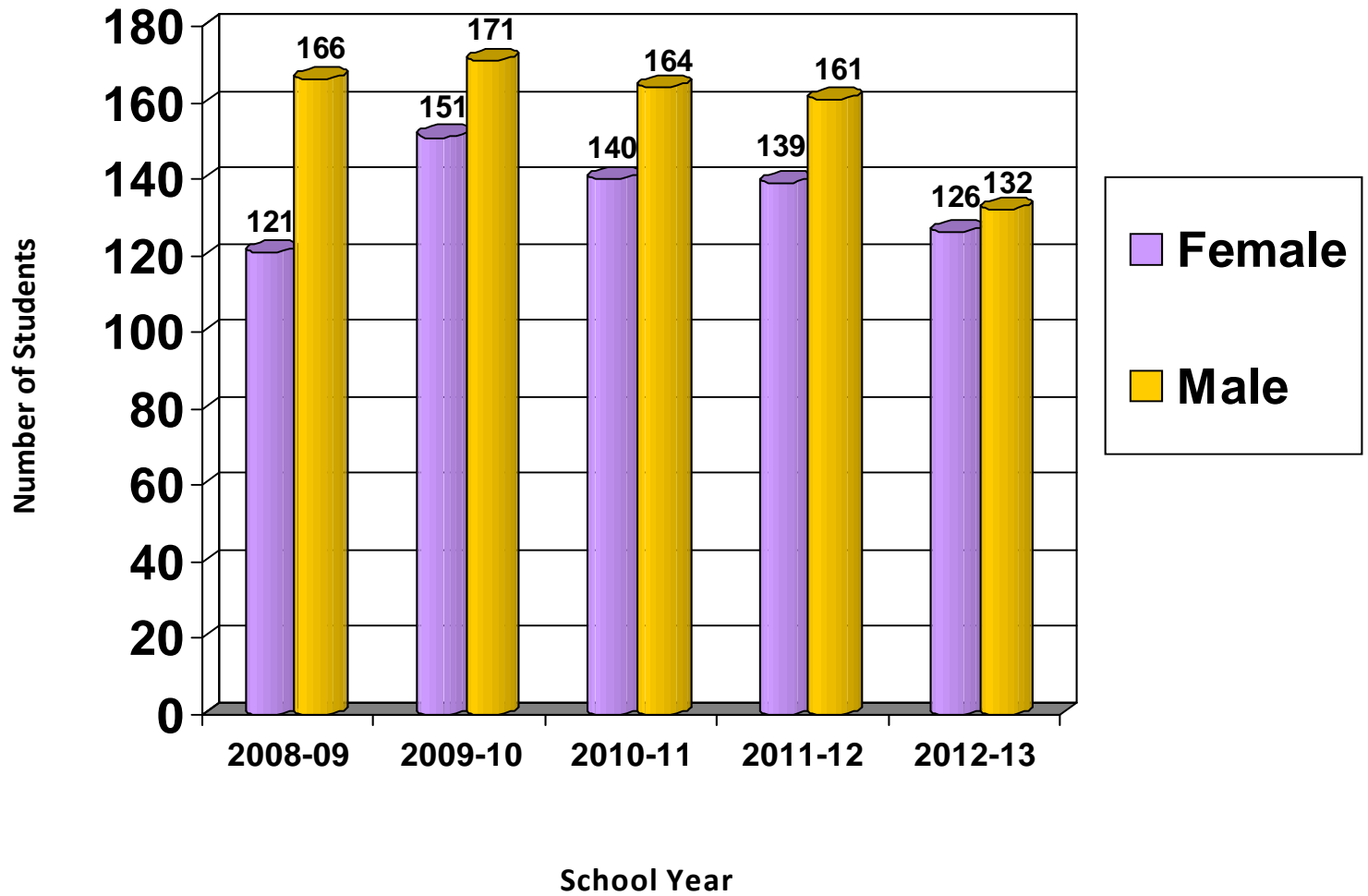


Official Enrollment by Grade, Gender, and Race

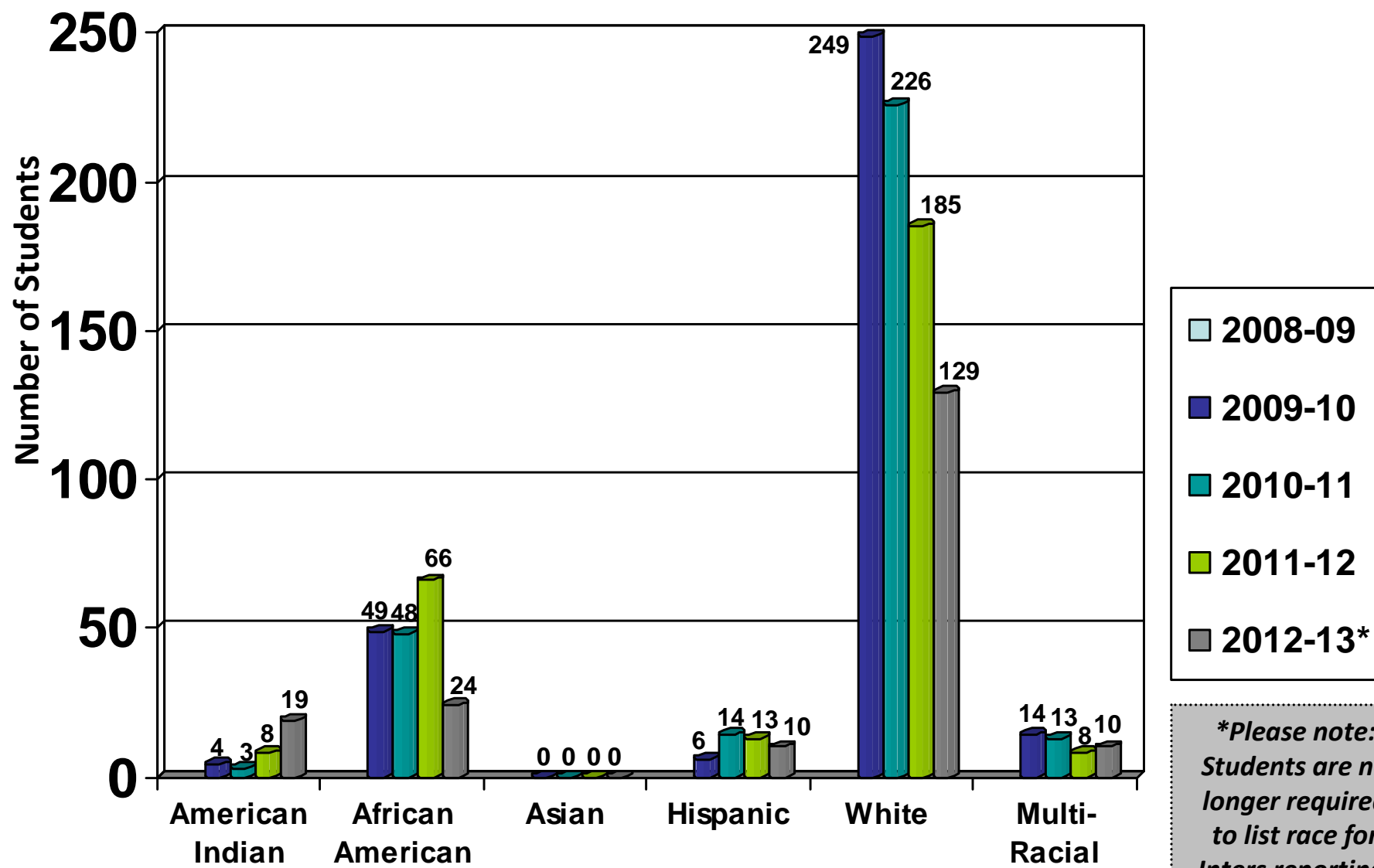
Enrollment by Grade



Enrollment by Gender



Enrollment by Race

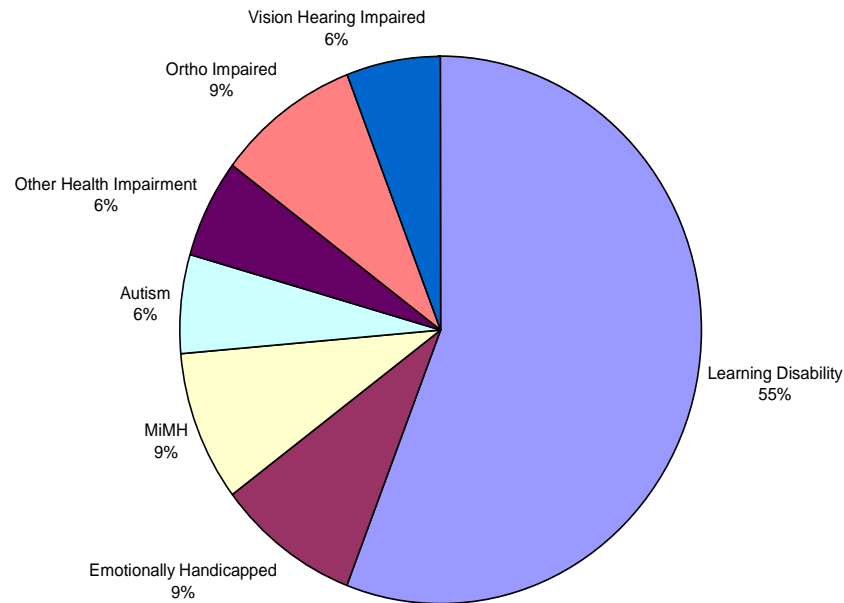


**Please note:
Students are no
longer required
to list race for
Inters reporting.*

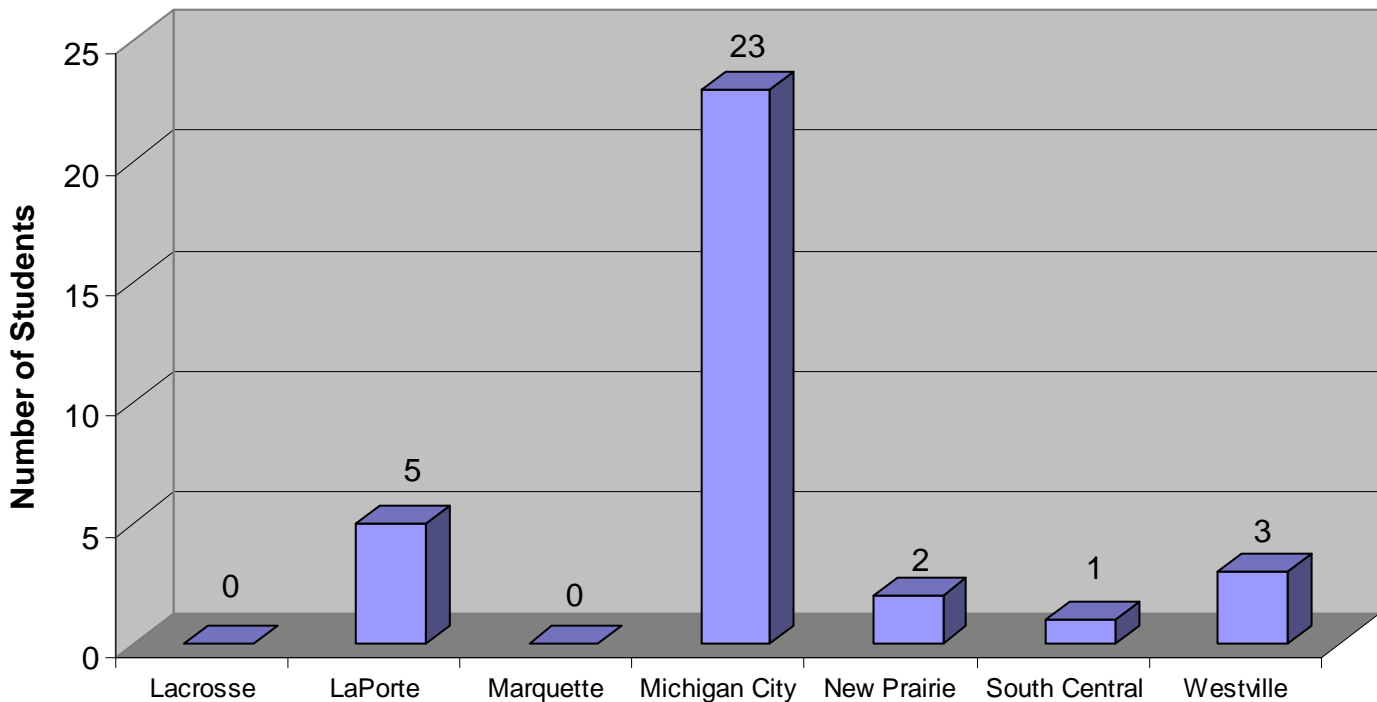


Special Needs Population Data

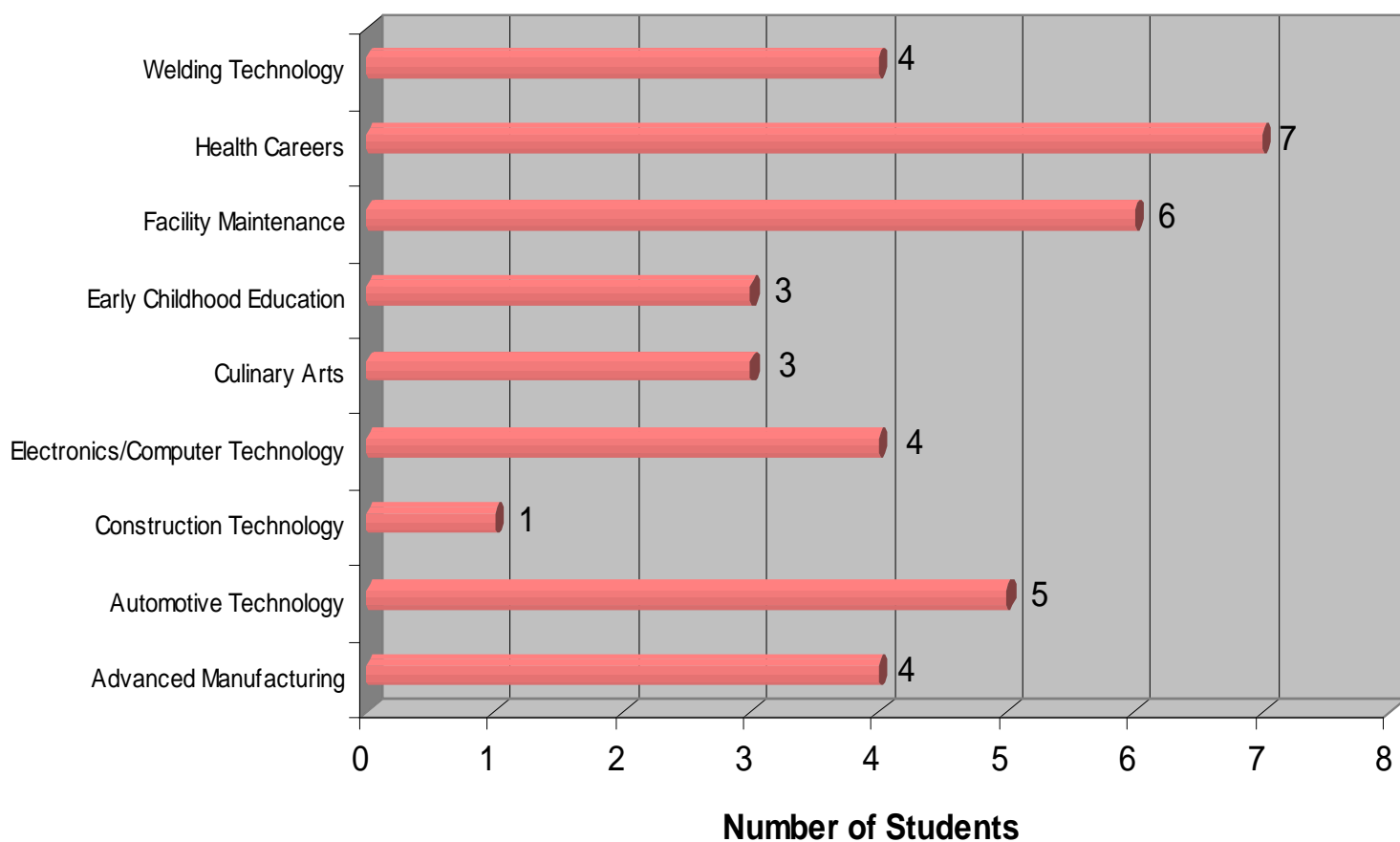
2012-13 Special Needs Population



Special Needs Students by School



2012-13 Special Needs Population by Class





Certifications

2011 – 2012 Certifications by Program

Course	Number of Students	Number Earning Certifications	Type of Certifications
Automotive Tech II	13	13	National Automotive Student Skills Standards (NA3SA)
Culinary Arts I	24	15	Serv Safe
Health Academy II	21	18	Certified Nursing Assistant (CNA), CPR/AED
Welding Tech	13	13	AWS Stick (SMAW) Certification



Dual Credit Agreements

LaPorte County Career & Technical Education

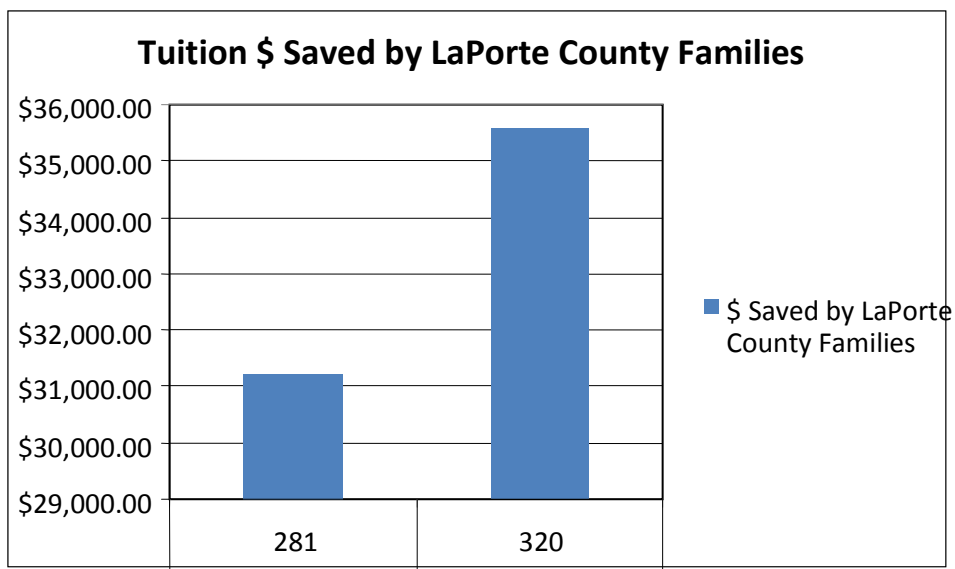
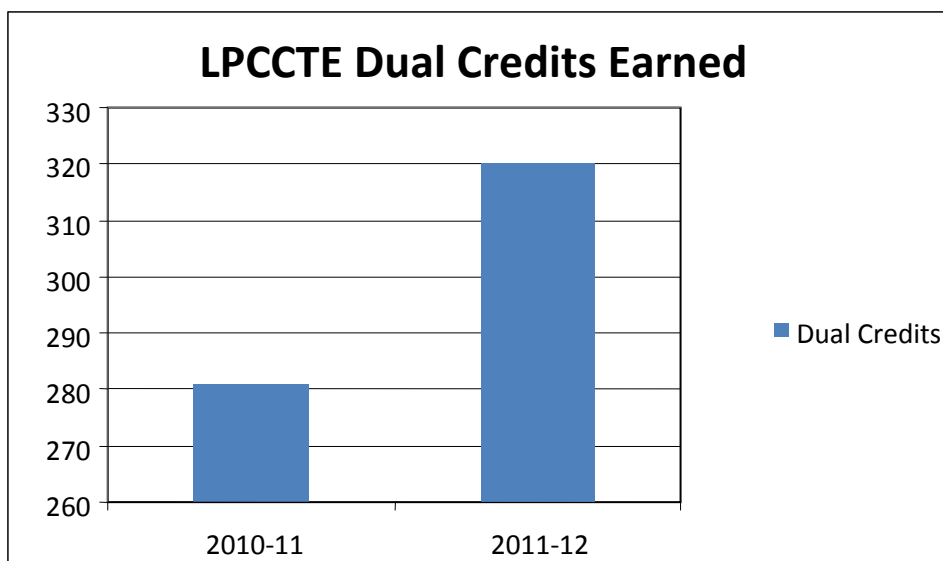
High School Course Title	College Course Title	Course #	Credits	Post Secondary Institution
Health Careers I	Intro to Health Careers		3	Ivy Tech
Health Careers I	Medical Terminology	HLHS 101	3	Ivy Tech
Health Careers I	Community Health and Wellness	HLTH 210	3	Vincennes
Health Careers I	Medical Terminology	HIMT 110	3	Vincennes
Health Careers I	Medical Terminology	GBH 200	3	Purdue NC
Health Careers I	Introduction to Health Care	HST 107	3	Purdue NC
Health Careers II	CNA Preparation		5	Ivy Tech
Health Careers II	Medical Terminology	HIMT 110	3	Vincennes
Health Careers II	Community Health and Wellness	HLTH 210	3	Vincennes
Automotive Technology	Suspension and Steering		3	Ivy Tech
	Braking Systems		3	Ivy Tech
	Engine Performance		3	Ivy Tech
	Electrical & Electronics		3	Ivy Tech
	Transportation Fundamentals	AUTO-105	3	Vincennes
	Transportation Electronics	AUTO-110	3	Vincennes
	Transportation Electrical Lab	AUTO-110L	3	Vincennes
Welding Technology	V65820-01	WLD 108	3	Ivy Tech
	V65820-02	WLD 208	3	Ivy Tech
	Oxy-Acetylene Welding	WELD 101	3	Vincennes
	Shielded Metal Arc Weld I	WELD 102	3	Vincennes
	Gas Metal Arc Welding	WELD 103	3	Vincennes
Advanced Manufacturing	Precision Machining	MTTC 101	3	Ivy Tech
	Precision Machining	INDT 102	3	Ivy Tech
	Precision Machining	MTTC 110	3	Ivy Tech
Electronics and Computer Tech	Digital Electronics		3	Ivy Tech
	Digital Fundamentals	ECT 112	3	Ivy Tech
	Basic Electricity and Electronics	ELEC 100	3	Vincennes
	Basic Component and Circuit Analysis	ELEC 110	3	Vincennes
	Digital Logic I	ELEC 130	3	Vincennes
	Introduction to Circuit Analysis	ECET 10700	3	Purdue NC
	Digital Fundamentals	ECET 10900	3	Purdue NC
Culinary Arts Academy	Serv Safe Certification	HOSP 101	3	Ivy Tech
	Serv Safe Certification	HOSP 102	3	Ivy Tech
	Pro Start Certification	HOSP 104	3	Ivy Tech
	Pro Start Certification	HOSP 105	3	Ivy Tech
	Quantity Food Production	CULN 110	3	Vincennes
	Introduction to Hospitality	REST 100	3	Vincennes
	Food Service Sanitation	REST 120	3	Vincennes
	Quantity Food Purchasing	REST 155	3	Vincennes
Construction Technology	Intro to Construction Tech	CONT 101	3	Ivy Tech
	Woodworking Fundamentals	TBCOT 120	3	Ivy Tech
	Construction Materials	CONT 102	3	Ivy Tech
	Floor and Wall Layout	BCOT 104	3	Ivy Tech
	Roof Construction	BCOT 105	3	Ivy Tech
	Construction Seminar	CNST 100	3	Vincennes
	Construction Safety	CNST 120	3	Vincennes
	Indiana Residential Code for 1/2 Family	CNST 261	3	Vincennes

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New for 2012-13 School Year



College Credit Comparison





Business & Community Partnerships

Alcoa Howmet
Anderson's Auto
Apex Mufflers
The Arbors of Michigan City
Arturo's Bakery
Auto Zone
Autovalue

B & E Marine
Bentwood Tavern
Big R
Blue Chip Casino
Bob Evans Restaurant
Bosak Honda

CASA/Harmony House
CCI-Criterion
Center for Creative Solutions
Cermaks Decks & More
Chamberlin's Education Keys
City Lanes
Commercial Vehicle Group
Computer Pros
Culinary Care

Dage-MTI
David's Automotive
Dawn's Daycare
Dekker Vacuum Technologies
Dwyer Instruments

Edible Michiana
Electrical Joint Apprenticeship
Elwood Staffing

Fibrebond
First Trust Credit Union
Foster Printing
Four A's Auto Club
Four Winds Casino Resort
Franciscan St. Anthony Health
Frech USA Inc.
Freezing Systems and Service

GAF
Gases, LLC
Golden Living – Fountainview
Golden Living – Countryside

Granny's House Daycare
Great Lakes Welding Supply

H & R Block
H.R. Solutions, Inc.
Harbor Chevrolet
Harrison Electric
Hearthside Food Solutions
Hirsch Ford
Home Care Services of NW Indiana
Horizon Bank

IES Temporary Agency
ITRCC
I.U. Health LaPorte Hospital
Ideal Metal Works
Imagination Station
Ivy Tech Community College
Ivy Tech Culinary Arts Faculty

J and T Automotive
Jet Fabricators
Jewel Osco

Kelly Services
KTR
Kelly's Table
Kite's Kitchen
Kniola Automotive

Lakeshore Foods
LaPorte Chamber of Commerce
LaPorte County Convention & Visitors
Bureau
La Porte County Coroner's Office
Life Care Center of Michigan City
Lincoln Electric Co
Lowe's

MC Auto Supply
MCAS Food & Nutrition Services
MCAS Plant Planning Department
MCAS Technology Department
MCHS Guidance Department
Meyer Glass & Mirror
Michiana Resources
Michigan City Area Chamber of
Commerce

Business & Community Partnerships, cont.

Michigan City Economic Development
Corporation
Michigan City Fire Department
Michigan City Main Street Association
Moneymaker Racing

New York Blower
Nielsen Hyundai-Kia
Northwest Indiana Local Food Guild

P & E Mullins
Packaging Logic
Pendergast Appraisal Service
Peters & Marske
Praxair
Purdue University North Central

Revive Consignments
Rittenhouse Senior Living

Sager Metal
Sauers Buick-Cadillac-GMC
Sears Automotive
Sedona Staffing
Settlers House

Sevick Gardens & Markets
Shoreline Brewery

Snap-On Industrial
Spartan Staffing
Spire Catering and Events
Sterling House / Clare Bridge Cottage
South Shore Freight
Stepping Stone Shelter
Sullair Corporation
Sullivan Palatek
Swanson Staffing
Tom's Body Shop
Tony's Service Center
Top Dog / Great Lakes Catering

United States Army
Uptown Arts District

Vessels Unlimited
Vincennes University
Washington Park Zoo
Winn Machine
Work One
Working Well Occupational Health

Indiana College & Career Pathways

Fall 2012



The updated version of Indiana's Career Clusters and Pathways are included on the following pages with the addition of the CTE course sequences recommended for each Pathway.

All of the following information is included:

- Cluster titles
- Pathway titles
- Salary averages and ranges
- Sequence of CTE Pathway courses recommended for student success
- Numbers at the end of each course title indicate the number of credits students can earn in that course.
- Underlining indicates courses that have agreements with postsecondary institutions in place and are available for Dual College Credit.
- **Information highlighted in red indicates additions or revisions, made in the fall of 2012, to the Pathways that were originally presented to the State Board of Education in December 2011.**

Note that “Preparing for College and Careers” and “Personal Financial Responsibility” (or “Adult Roles & Responsibilities” in some schools – to maintain local flexibility) are foundational CTE courses recommended for every student in every Pathway.

Agriculture

Agribusiness

Average Salary \$57,131
Range \$33K to \$92K

- Introduction to Agriculture, Food & Natural Resources 2 credits
- Agriculture Power, Structure & Technology 2-6 credits
- Agribusiness Management 2 credits

Life Sciences

Average Salary \$50,868
Range \$28K to \$88K

- Introduction to Agriculture, Food & Natural Resources 2 credits
- CONCENTRATION: ANIMAL SCIENCE
- Animal Science 2-6 credits
 - Advanced Life Science: Animals 2 credits
- CONCENTRATION: FOOD SCIENCE
- Food Science 2 credits
 - Advanced Life Science: Food 2 credits
- CONCENTRATION: PLANTS & SOILS
- Plant and Soil Science 2 credits
 - Advanced Life Science: Plants & Soils 2 credits
- CONCENTRATION: NATURAL RESOURCES
- Natural Resources I 2 credits
 - Sustainable Energy Alternatives 2 credits

Horticulture & Landscape Mgmt

Average Salary \$53,173
Range \$32K to \$67K

- Introduction to Agriculture, Food & Natural Resources 2 credits
- Plant and Soil Science 2 credits
- Advanced Life Science: Plants and Soils 2 credits
- Horticulture Science I 2-6 credits
- Landscape Management I 2-6 credits
- Landscape Management II 2-6 credits

Architecture & Construction

Construction Trades

Average Salary \$45,292
Range \$34K to \$78K

CONCENTRATION: CONSTRUCTION

- Introduction to Construction 2 credits
- Construction Technology I 4-6 credits
- Construction Technology II 4-6 credits

CONCENTRATION: ELECTRICAL

- Introduction to Construction 2 credits
- Electrical I 4-6 credits
- Electrical II 4-6 credits

CONCENTRATION: HVAC

- Introduction to Construction 2 credits
- HVAC I 4-6 credits
- HVAC II 4-6 credits

CONCENTRATION: HEAVY EQUIPMENT

- Introduction to Construction 2 credits
- Heavy Equipment I 4-6 credits
- Heavy Equipment II 4-6 credits

Commercial & Residential Facilities

Average Salary \$45,292
Range \$34K to \$78K

CONCENTRATION: RESIDENTIAL & COMMERCIAL FACILITIES MANAGEMENT

- Introduction to Housing & Interior Design 2 credits
- Residential & Commercial Facilities Management I and II 4-6 credits each

CONCENTRATION: BUILDING MANAGEMENT

- Introduction to Construction 2 credits
- Building & Facilities Management I 4-6 credits
- Building & Facilities Management II 4-6 credits

CONCENTRATION: BUILDING & FACILITIES MAINTENANCE

- Introduction to Construction 2 credits
- Building & Facilities Maintenance I 4-6 credits
- Building & Facilities Maintenance II 4-6 credits

Drafting & Design

Average Salary \$48,658
Range \$42K to \$64K

CONCENTRATION: ARCHITECTURAL

- Computers in Design and Production Systems 2 credits
- Introduction to Housing & Interior Design 2 credits
- Architectural Drafting & Design I 4-6 credits
- Architectural Drafting & Design II 4-6 credits

CONCENTRATION: MECHANICAL

- Computers in Design and Production Systems 2 credits
- Mechanical Drafting & Design I 4-6 credits
- Mechanical Drafting & Design II 4-6 credits

Arts, AV Technology & Communications

Web & Digital Communications

Average Salary \$38,404
Range \$29K to \$53K

CONCENTRATION: INTERACTIVE MEDIA

- Introduction to Communication 2 credits
- Introduction to Design Processes 2 credits
- Design Fundamentals 2 credits
- Computer Illustrations & Graphics 2-6 credits
- Interactive Media 2-6 credits
- Web Design 2 credits

CONCENTRATION: RADIO TV

- Introduction to Communication 2 credits
- Introduction to Design Processes 2 credits
- Radio & Television I 4-6 credits
- Radio & Television II 4-6 credits

Visual Arts

Average Salary \$41,127
Range \$34K to \$53K

CONCENTRATION: VISUAL COMMUNICATION

- Introduction to Design Processes 2 credits
- Design Fundamentals 2 credits
- Computer Illustrations & Graphics 2-6 credits
- Graphic Design and Layout 2-6 credits
- Web Design 2 credits

CONCENTRATION: COMMERCIAL PHOTOGRAPHY

- Introduction to Design Processes 2 credits
- Design Fundamentals 2 credits
- Computer Illustrations & Graphics 2-6 credits
- Commercial Photography 2 credits
- Graphic Design and Layout 2-6 credits

CONCENTRATION: FASHION, TEXTILES & DESIGN

- Introduction to Design Processes 1 credit
- Introduction to Fashion and Textiles 1-2 credits
- Fashion and Textile Careers I 2-6 credits
- Fashion and Textile Careers II 2-6 credits

Business & Marketing

Business Administration

Average Salary \$75,829
Range \$28K to \$154K

CONCENTRATION: ACCOUNTING & FINANCE

- IT Essentials 2 credits
- Business, Marketing & Entrepreneurship 1 credit
- Accounting 2 credits
- Principles of Business Management 2 credits
- Financial Services 4 credits
- Business Law and Ethics 2 credits

CONCENTRATION: ENTREPRENEURSHIP & MANAGEMENT

- IT Essentials 2 credits
- Business, Marketing and Entrepreneurship 1 credit
- Accounting 2 credits
- Principles of Business Management 2 credits
- Principles of Marketing 2 credits
- Business Law & Ethics 2 credits

FOCUS: BUSINESS MANAGEMENT

- Advanced Business Management 4 credits

FOCUS: ENTREPRENEURSHIP

- Entrepreneurship & New Ventures 4 credits

CONCENTRATION: MARKETING MANAGEMENT

- IT Essentials 2 credits
- Business, Marketing & Entrepreneurship 1 credit
- Accounting 2 credits
- Principles of Marketing 2 credits
- Strategic Marketing 4 credits

FOCUS: MERCHANDISING

- Merchandising 2 credits

FOCUS: MARKETING IN HOSPITALITY & TOURISM

- Marketing in Hospitality & Tourism 2 credits

FOCUS: SPORTS MARKETING

- Sports & Entertainment Electives 2 credits
- Sports & Entertainment Marketing 2 credits

Education & Training

Education & Early Childhood

Average Salary \$44,237
Range \$22K to \$64K

CONCENTRATION: EARLY CHILDHOOD EDUCATION

- Child Development/Advanced Child Development 2 credits
- Interpersonal Relationships 1-2 credits
- Early Childhood Education I 4-6 credits
- Early Childhood Education II 4-6 credits each

CONCENTRATION: EDUCATION CAREERS

- Child Development/Advanced Child Development 2 credits
- Interpersonal Relationships 1-2 credits
- Adult Roles & Responsibilities 1-2 credits
- Education Professions I 2-4 credits
- Education Professions II 4-6 credits

Health Science

Biotechnology

Average Salary \$59,977
Range \$32K to \$88K

- PLTW Principles of Biomed
2 credits
- PLTW Human Body Systems
2 credits
- PLTW Medical Interventions
2 credits
- PLTW Biomedical Innovation
2 credits
- Human Development & Wellness 2 credits

Health Care Specialties

Average Salary \$29,710
Range \$20K to \$44K

CONCENTRATION: HEALTH SCIENCE

- Medical Terminology 1 credit
- Anatomy & Physiology 2 credits
- Health Science Education I 4 credits

FOCUS: COMPREHENSIVE HEALTH SCIENCE CAREERS &/OR EMERGING CAREERS

- Health Science II-Special Topics 4-6 credits

FOCUS: PHARMACY

- Health Science II-Pharmacy 4-6 credits

FOCUS: PHYSICAL THERAPY

- Health Science II-Physical Therapy 4-6 credits

CONCENTRATION: DIETETICS & NUTRITION SCIENCE

- Nutrition Science Careers I 4-6 credits
- Nutrition Science Careers II 4-6 credits

CONCENTRATION: VETERINARY

- Veterinary Careers I 4-6 credits
- Veterinary Careers II 4-6 credits

Nursing

Average Salary \$40,969
Range \$37K to \$45K

- Medical Terminology 1 credits
- Anatomy & Physiology 2 credits
- Health Science Education I 4 credits
- Health Science Education II-Nursing 4-6 credits
- Human Development & Wellness 2 credits

Dental

Average Salary \$44,416
Range \$34K to \$65K

- Nutrition and Wellness 2 credits
- Interpersonal Relationships 1-2 credits
- Dental Careers I 6 credits
- Dental Careers II 6 credits

Hospitality & Human Services

Culinary Arts

Average Salary \$40,215
Range \$35K to \$45K

- Nutrition & Wellness/
Advanced Food & Nutrition
2 credits
- Introduction to Culinary Arts
& Hospitality 1-2 credits
- Interpersonal Relationships
1-2 credits
- Business, Marketing, &
Entrepreneurship 1 credit
- Culinary Arts and Hospitality
Management 4-6 credits
- Advanced Culinary Arts
4-6 credits

Cosmetology

Average Salary \$21,495
Range \$21K to \$23K

- Business, Marketing, &
Entrepreneurship 1 credit
- Cosmetology I 6 credits
- Cosmetology II 6 credits

Human & Social Services

Average Salary \$45,550
Range \$21K to \$96K

- Interpersonal Relationships 1-2 credits
- Human Development & Wellness 1-2
credits
- Human & Social Services I 4-6 credits
- Human & Social Services II 4-6 credits

Hospitality Management

Average Salary \$33,681
Range \$30K to \$43K

- Nutrition & Wellness/
Advanced Food & Nutrition
2 credits
- Introduction to Culinary Arts
& Hospitality 1-2 credits
- Interpersonal Relationships
1-2 credits
- Business, Marketing, &
Entrepreneurship 1 credit
- Culinary Arts and Hospitality
Management 4-6 credits
- Advanced Hospitality
Management 4-6 credits

Information Technology

Programming

Average Salary \$65,857
Range \$62K to \$70K

- IT Essentials 2 credits
- Computer Programming I 4-6 credits
- Computer Programming II 4-6 credits

PC Networking & Support

Average Salary \$56,216
Range \$38K to \$67K

CONCENTRATION: NETWORKING

- IT Essentials 2 credits
- Computer Tech Support 4-6 credits
- Bridges to the Internet 4-6 credits

CONCENTRATION: PC SUPPORT

- IT Essentials 2 credits
- Computer Tech Support 4-6 credits
- Network Fundamentals 4-6 credits

Manufacturing & Logistics

Advanced Manufacturing

Average Salary \$48,768

Range \$29K to \$79K

- Intro to Advanced Manufacturing & Logistics and/or Introduction to Manufacturing 2 credits
- Computers in Design & Production 2 credits
- Advanced Manufacturing I 4-6 credits
- Advanced Manufacturing II 4-6 credits

Engineering

Average Salary \$57,470

Range \$31K to \$63K

- Introduction to Engineering Design 2 credits
- Principles of Engineering 2 credits

AT LEAST ONE OF THE FOLLOWING

- Civil Engineering and Architecture 2 credits
- Computer Integrated Manufacturing 2 credits
- Digital Electronics 2 credits
- Biotechnical Engineering 2 credits
- Aerospace Engineering 2 credits

CAPSTONE (RECOMMENDED)

- PLTW Engineering Design & Development 2 credits

Machine Technology

Average Salary \$37,164

Range \$32K to \$46K

- Introduction to Manufacturing 2 credits
- Computers in Design & Production 2 credits
- Precision Machining I 4-6 credits
- Precision Machining II 4-6 credits

Electronics

Average Salary \$31,979

Range \$30K to \$33K

- Introduction to Manufacturing 2 credits
- Electronics & Computer Technology I 4-6 credits
- Electronics & Computer Technology II 4-6 credits each

Logistics & Supply Chain Management

Average Salary \$48,768

Range \$29K to \$79K

- Introduction to Advanced Manufacturing & Logistics 2 credits
- Supply Chain Management & Logistics 4-6 credits
- Warehouse Operations & Materials Handling 4-6 credits

Welding

Average Salary \$31,979

Range \$30K to \$33K

- Introduction to Manufacturing 2 credits
- Computers in Design & Production Systems 2 credits
- Welding Technology I 4-6 credits
- Welding Technology II 4-6 credits

Public Safety

Criminal Justice

Average Salary \$45,521
Range \$31K to \$49K

- Interpersonal Relationships 1-2 credits
- Criminal Justice I 4-6 credits
- Criminal Justice II 4-6 credits

EMT/Paramedic

Average Salary \$37,033
Range \$37K to \$37K

- Human Development and Wellness 1-2 credits
- Health Science Education I 4 credits
- Emergency Medical Services 4-6 credits

Fire & Rescue

Average Salary \$43,820
Range \$36K to \$58K

- Interpersonal Relationships 1-2 credits
- Fire & Rescue I 4-6 credits
- Fire & Rescue II 4-6 credits

Transportation

Automotive Service

Average Salary \$34,038
Range \$34K to \$51K

- Introduction to Transportation 2 credits
- Automotive Service Technology I 4-6 credits
- Automotive Service Technology II 4-6 credits

Diesel Service

Average Salary \$38,140
Range \$37K to \$41K

- Introduction to Transportation 2 credits
- Diesel Service Technology I 4-6 credits
- Diesel Service Technology II 4-6 credits

Aviation

Average Salary \$60,051
Range \$57K to \$63K

- Introduction to Transportation 2 credits
- Introduction to Engineering Design 2 credits
- Principles of Engineering 2 credits
- Aerospace Engineering 2 credits
- Aviation Flight and Aviation Operations 8 credits
or
- Aviation Maintenance 6 credits

Recreational & Mobile Equipment

Average Salary \$37,790
Range \$20K to \$49K

- Introduction to Transportation 2 credits
- Recreational & Mobile Equipment I 4-6 credits
- Recreational & Mobile Equipment II 4-6 credits

Automotive Collision Repair

Average Salary \$39,516
Range \$34K to \$43K

- Introduction to Transportation 2 credits
- Automotive Collision Repair Technology I 4-6 credits
- Automotive Collision Repair Technology II 4-6 credits

Tractor Trailer Operation

Average Salary \$37,770
Range \$24K to \$57K

- Introduction to Transportation 2 credits
- Auto Service Technology I or Diesel Service Technology I 4-6 credits
- Tractor Trailer Operation 4-6 credits



ADVANCED
MANUFACTURING

YOUR DOOR TO THE FUTURE



LA PORTE COUNTY **CAREER
& TECHNICAL EDUCATION**

A.K. SMITH CAREER CENTER

Advanced Manufacturing

Fourteen of the Twenty "HOT JOBS" in Indiana are related to the Manufacturing and Processing industry.



If you have an interest in a manufacturing career, you should check out the Modern Machining Technology class. You will learn basic machining techniques, CNC machining, computer aided machining (CAM), quality control processes and basic mechanics. At the completion of the program, you will be prepared for a career in machining or a step ahead in any engineering major at college. You can earn articulated or dual credit in college by participating in this program.



INDIANA COLLEGE AND CAREER PATHWAY PLAN – STATE MODEL

Career Cluster: **MANUFACTURING** Career: **PRECISION MACHINE TECHNOLOGY**

Core 40 with Honors High School Graduation Plan: This is a SAMPLE plan for schools to use in planning. Course sequences and grade level in which courses are offered may vary according to local policies, practices and resources. Students should enroll in Indiana Career Explorer, complete interest inventories, and investigate careers in clusters and pathways prior to or during the time they create their individual Pathway Plans.

S E C O N D A R Y

YR	English/ Language Arts	Math	Science	Health/PE Social Studies	CTE/Career Preparation Courses for this Pathway		Additional Elective Courses
9	English 9	Algebra I	Biology	Health & Wellness/ Physical Ed.	Preparing for College and Careers		Computer Applications Personal Financial Responsibility World Language
10	English 10	Geometry	Chemistry	Geography/History of the World or World History/Civilization	Introduction to Advanced Manufacturing & Logistics		World Language
11	English 11	Algebra II	3rd Core 40 Science	US History	** ADVANCED MANUFACTURING/PRECISION MACHINING I		World Language
12	English 12	Math or Quantitative Reasoning		Government Economics	** ADVANCED MANUFACTURING/PRECISION MACHINING II		Fine Arts

State specified Pathway Assessments: Dual Credit Assessment from Postsecondary Institution

Industry Recognized Certification: National Institute for Metal Working Skills (NIMS)

P O S T S E C O N D A R Y

Courses Aligned for Potential Dual Credit **

** See individual Course Frameworks for alignment of high school course standards and postsecondary course objectives

Ivy Tech Community College

- MTTC 101 - Intro. to Machining
- MTTC 105 - Abrasive Processes I
- MTTC 110 - Turning and Milling

Vincennes University

- PMTD 110/110L - Manufacturing Processes and Lab
- PMTD 117 - Basic Machining I
- PMTD 118 - Basic Machining II

PNC credits in progress



AGRICULTURE

YOUR DOOR TO THE FUTURE



LA PORTE COUNTY **CAREER
& TECHNICAL EDUCATION**

A.K. SMITH CAREER CENTER

Agriculture



A career based
in the great
outdoors...

Advanced Life Science, Animal Plant & Soil course is a standards-based, interdisciplinary science course that integrates biology, chemistry, and microbiology in an agricultural context. Students enrolled in this course formulate, design, and carry out laboratory and field investigations as an essential course component. Using the principles of scientific inquiry, students examine the internal structures, functions, genetics and processes of living plant organisms and their interaction with the environmental. Students completing this course will be able to apply the principles of scientific inquiry to solve problems related to biology and chemistry in highly advanced agricultural applications of animal development, plant and soils, food and formulation, design, and carrying out food based laboratory and field investigations as an essential course component of the composition of foods, food nutrition, development, food processing, and storage.



INDIANA COLLEGE AND CAREER PATHWAY PLAN – STATE MODEL

Career Cluster: **AGRICULTURE** Concentration: **ANIMALS / PLANTS *** Pathway: **LIFE SCIENCES**

Core 40 with Honors High School Graduation Plan: This is a SAMPLE plan for schools to use in planning.

Course sequences and grade level in which courses are offered may vary according to local policies, practices and resources.

Students should enroll in Indiana Career Explorer, complete interest inventories, and investigate careers in clusters and pathways prior to or during the time they create their individual Pathway Plans.

* There are two concentrations within the Agriculture cluster with identical paths except for the courses set in red. Red is for PLANTS.

S E C O N D A R Y

YR	English/ Language Arts	Math	Science	Health/PE Social Studies	CTE/Career Preparation Courses for this Pathway		Additional Elective Courses
9	English 9	Algebra I	Biology	Health & Wellness/ Physical Ed.	Preparing for College and Careers	Introduction to Agriculture, Food and Natural Resources	Computer Applications Personal Financial Responsibility World Language
10	English 10	Geometry	Chemistry	Geography/History of the World or World History/Civilization		Animal Science * Plant and Soil Science	World Language
11	English 11	Algebra II	3rd Core 40 Science	US History	** ADVANCED LIFE SCIENCE: ANIMALS ** ADVANCED LIFE SCIENCE: PLANTS & SOILS		World Language
12	English 12	Math or Quantitative Reasoning		Government Economics			World Language Fine Arts

State specified Pathway Assessments: Dual Credit Final

Industry Recognized Certification: NA

P O S T S E C O N D A R Y

Courses Aligned for Potential Dual Credit **

** See individual Course Frameworks for alignment of high school course standards and postsecondary course objectives

Purdue University - Animals

- ANSC 10200 - Introduction to Animal Science

Purdue University - Plants

- BTNY 11000 - Introduction to Plant Science



AUTOMOTIVE
TECHNOLOGY

YOUR DOOR TO THE FUTURE



LA PORTE COUNTY **CAREER
& TECHNICAL EDUCATION**

A.K. SMITH CAREER CENTER

Automotive Technology



If you enjoy having a talent that few people have and want to know how cars and light duty trucks work, then sign up for this hands-on program. This program will give you the opportunity to work on vehicles and give you a basic understanding of the new technologies and principles necessary to perform repairs on your own vehicle or to prepare for a career in the auto industry. Area businesses are eager to hire bright young people for employment and for apprenticeship programs. Many students have won scholarships for higher education as a result of participating in this program. You should have strong communication and computer skills and be task oriented to be successful in this program.



INDIANA COLLEGE AND CAREER PATHWAY PLAN – STATE MODEL

Career Cluster: **TRANSPORTATION** Pathway: **AUTOMOTIVE SERVICE TECHNOLOGY**

Core 40 with Honors High School Graduation Plan: This is a SAMPLE plan for schools to use in planning.

Course sequences and grade level in which courses are offered may vary according to local policies, practices and resources.

Students should enroll in Indiana Career Explorer, complete interest inventories, and investigate careers in clusters and pathways prior to or during the time they create their individual Pathway Plans.

S E C O N D A R Y

YR	English/ Language Arts	Math	Science	Health/PE Social Studies	CTE/Career Preparation Courses for this Pathway		Additional Elective Courses
9	English 9	Algebra I	Integrated Chemistry- Physics	Health & Wellness/ Physical Ed.	Preparing for College and Careers		Computer Applications Personal Financial Responsibility World Language
10	English 10	Geometry	Biology	Geography/History of the World or World History/Civilization	Introduction to Transportation		World Language
11	English 11	Algebra II	3rd Core 40 Science	US History	** AUTOMOTIVE TECHNOLOGY I		World Language
12	English 12	Math or Quantitative Reasoning		Government Economics	** AUTOMOTIVE TECHNOLOGY II		Fine Arts

State specified Pathway Assessments: Dual credit assessment with Ivy Tech or Vincennes University or NA3SA assessments – 4 by the end of Auto I, total of 7 by the end of Auto II
Industry Recognized Certification: Automotive Service Excellence (ASE)

P O S T S E C O N D A R Y

Courses Aligned for Potential Dual Credit **

** See individual Course Frameworks for alignment of high school course standards and postsecondary course objectives

Ivy Tech Community College

- AUTO 101 - Suspension and Steering
- AUTO 121 - Brakes
- AUTO 113 - Electrical Systems
- AUTO 109 - Engine Performance

Vincennes University

- AUTO 105 - Transportation Fundamentals
- AUTO 110/L - Electrical Systems



CONSTRUCTION
TECHNOLOGY



YOUR DOOR TO THE FUTURE



LA PORTE COUNTY **CAREER
& TECHNICAL EDUCATION**

A.K. SMITH CAREER CENTER

Construction Technology

Construction is one of the nation's largest industries with 8.3 million workers.



Do you like to work with your hands? Do you like to work outdoors? Would you like to join a construction crew with your classmates and actually build a house or commercial structure? Then sign up for this program!! You will be given the opportunity to prepare for employment and learn the attitudes and behavior necessary to get a job in this field. If you're interested in gaining pre-apprenticeship training in carpentry, electrical, heating, air conditioning, painting, drywalling, plumbing, and masonry trades, sign up today.



INDIANA COLLEGE AND CAREER PATHWAY PLAN – STATE MODEL

Career Cluster: **ARCHITECTURE AND CONSTRUCTION** Pathway: **CONSTRUCTION TRADES**

Core 40 with Honors High School Graduation Plan: This is a SAMPLE plan for schools to use in planning.

Course sequences and grade level in which courses are offered may vary according to local policies, practices and resources.

Students should enroll in Indiana Career Explorer, complete interest inventories, and investigate careers in clusters and pathways prior to or during the time they create their individual Pathway Plans.

S E C O N D A R Y

YR	English/ Language Arts	Math	Science	Health/PE Social Studies	CTE/Career Preparation Courses for this Pathway		Additional Elective Courses
9	English 9	Algebra I	Biology	Health & Wellness/ Physical Ed.	Preparing for College and Careers		Computer Applications Personal Financial Responsibility World Language
10	English 10	Geometry	Chemistry	Geography/History of the World or World History/Civilization	Introduction to Construction		World Language
11	English 11	Algebra II	3rd Core 40 Science	US History	** CONSTRUCTION TECHNOLOGY I		World Language
12	English 12	Math or Quantitative Reasoning		Government Economics	** CONSTRUCTION TECHNOLOGY II		Fine Arts

State specified Pathway Assessments: Dual credit assessment from Ivy Tech or Vincennes University or Home Builders Institute(HBI) Principles of Construction or Carpentry Basic assessments. **Industry Recognized Certification:** Home Builders Institute Principles of Construction or Carpentry Basic

P O S T S E C O N D A R Y

Courses Aligned for Potential Dual Credit **

** See individual Course Frameworks for alignment of high school course standards and postsecondary course objectives

Ivy Tech Community College

- CONT 101 - Introduction to Construction
- CONT 106 - Construction Blueprint Reading
- BCOT 104 - Floor and Wall Layout
- BCOT 113 - Interior Trim
- BCOT 114 - Exterior Trim
- BCOT 105 - Roof Construction

Vincennes University

- CNST 120 - Construction Safety
- CNST 261 - Indiana Residential Code for One and Two-Family Dwellings
- ARCH 102 - Architectural Drafting/Print Reading
- CNST 100 - Construction Seminar

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La Porte County Career & Technical Education - A.K. Smith Career Center 817 Lafayette Street Michigan City, IN 46360 (219) 873-2120



COSMETOLOGY

YOUR DOOR TO THE FUTURE



LA PORTE COUNTY **CAREER
& TECHNICAL EDUCATION**

A.K. SMITH CAREER CENTER

Cosmetology



Learn in a full service salon open to the public

Due to 21st Century advertising trends, fashionable looks for both men and women will remain of great importance. Although styles will change, a cosmetologist's task will remain the same...to help people look attractive. As a service professional, you will be shampooing, cutting, styling, straightening, perming, and coloring hair, giving manicures, providing scalp and facial treatments, and furnishing makeup analysis. At the end of this program, you will be eligible to take the Indiana State Beauty Board Examination.

Become a licensed cosmetologist who can cut and style hair, give manicures, pedicures, facials and more



INDIANA COLLEGE AND CAREER PATHWAY PLAN – STATE MODEL

Career Cluster: **HUMAN SERVICES** Concentration: **COSMETOLOGY** Pathway: **PERSONAL CARE SERVICES**

Core 40 with Honors High School Graduation Plan: This is a SAMPLE plan for schools to use in planning.

Course sequences and grade level in which courses are offered may vary according to local policies, practices and resources.

Students should enroll in Indiana Career Explorer, complete interest inventories, and investigate careers in clusters and pathways prior to or during the time they create their individual Pathway Plans.

S E C O N D A R Y

YR	English/ Language Arts	Math	Science	Health/PE Social Studies	CTE/Career Preparation Courses for this Pathway		Additional Elective Courses
9	English 9	Algebra I	Biology	Health & Wellness/ Physical Ed.	Preparing for College and Careers		Computer Applications Personal Financial Responsibility World Language
10	English 10	Geometry	Chemistry	Geography/History of the World or World History/Civilization	Business, Marketing & Entrepreneurship Fundamentals		Fine Arts World Language
11	English 11	Algebra II	3rd Core 40 Science	US History	** COSMETOLOGY I		
12	English 12	Math or Quantitative Reasoning		Government Economics	** COSMETOLOGY II		

State specified Pathway Assessments: State Cosmetology License Assessment or Dual Credit Assessment from Postsecondary Institution

Industry Recognized Certification: State Cosmetology License

P O S T S E C O N D A R Y

Courses Aligned for Potential Dual Credit **

** See individual Course Frameworks for alignment of high school course standards and postsecondary course objectives

Vincennes University

- COSM 100 - Cosmetology 1
- COSM 150 - Cosmetology 2
- COSM 200 - Cosmetology 3
- COSM 250 - Cosmetology 4



CRIMINAL JUSTICE
& LAW

YOUR DOOR TO THE FUTURE



LA PORTE COUNTY **CAREER
& TECHNICAL EDUCATION**

A.K. SMITH CAREER CENTER

Criminal Justice & Law



If you are interested in pursuing a career in law, law enforcement, corrections, or a security profession, join the rank and file of the law enforcement careers academy today. There are two different classes you can sign up for either as a junior or senior. The Criminal Justice System class surveys the legal system and the various careers available. You will discuss and be exposed to the process from a suspect being questioned to the convicted being placed in prison. In the Criminal Investigations class, you will study evidence collection, interview techniques, and proper documentation. Each class invites numerous guest speakers and takes several field trips.

**Form your own CSI opinions.
Enjoy a career in Law.**



INDIANA COLLEGE AND CAREER PATHWAY PLAN – STATE MODEL

Career Cluster: **LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY** Pathway: **CRIMINAL JUSTICE**

Core 40 with Honors High School Graduation Plan: This is a SAMPLE plan for schools to use in planning.

Course sequences and grade level in which courses are offered may vary according to local policies, practices and resources.

Students should enroll in Indiana Career Explorer, complete interest inventories, and investigate careers in clusters and pathways prior to or during the time they create their individual Pathway Plans.

S E C O N D A R Y

YR	English/ Language Arts	Math	Science	Health/PE Social Studies	CTE/Career Preparation Courses for this Pathway		Additional Elective Courses
9	English 9	Algebra I	Biology	Health & Wellness/ Physical Ed.	Preparing for College and Careers		Computer Applications Personal Financial Responsibility World Language
10	English 10	Geometry	Chemistry	Geography/History of the World or World History/Civilization	Interpersonal Relations		Speech/Communications or Fine Arts World Language
11	English 11	Algebra II	3rd Core 40 Science	US History	** CRIMINAL JUSTICE I		World Language
12	English 12	Math or Quantitative Reasoning		Government Economics	** CRIMINAL JUSTICE ADVANCED COURSE		Fine Arts

State specified Pathway Assessments: AWS SENSE Level 1 Modules 2, 3, 8(units 1 and 3), and 9; + 1 Welding Process

Industry Recognized Certification: AWS SENSE Entry Level Certification

P O S T S E C O N D A R Y

Courses Aligned for Potential Dual Credit **

** See individual Course Frameworks for alignment of high school course standards and postsecondary course objectives

Ivy Tech Community College

- CRIM 101 - Intro to Criminal Justice Systems
- CRIM 113 - Criminal Investigations

Vincennes University

- LAWE 100 - Survey Criminal Justice
- LAWE 106 - Intro to Traffic Control
- LAWE 150 - Intro to Criminology
- LAWE 160 - Criminal Investigations



CULINARY
ARTS

YOUR DOOR TO THE FUTURE



LA PORTE COUNTY **CAREER
& TECHNICAL EDUCATION**

A.K. SMITH CAREER CENTER

Culinary Arts



Are you interested in a career in the food service and hospitality industry? You could be one of the 1.5 million people expected to be hired in the next 10 years. Taking this course could lead to certification and a \$5,000 scholarship to the culinary school of your choice. This two-year program offers you the opportunity to gain knowledge and skills through classroom experiences and paid/unpaid internships in the second year. Emphasis is placed on developing workplace readiness skills in food preparation, safety and sanitation, management, financial planning of food costs, teamwork, creativity, communication, responsibility, and self-confidence. Classroom experiences are expected to include food preparation, demonstrations, guest speakers, videos projects, textbook reading, study guides, tests, and field trips. The program is also valuable for one year of participation.

Become Serv Safe certified.
Become ProStart certified.



INDIANA COLLEGE AND CAREER PATHWAY PLAN – STATE MODEL

Career Cluster: **CULINARY ARTS** Pathway: **HOSPITALITY MANAGEMENT**

Core 40 with Honors High School Graduation Plan: This is a SAMPLE plan for schools to use in planning.

Course sequences and grade level in which courses are offered may vary according to local policies, practices and resources.

Students should enroll in Indiana Career Explorer, complete interest inventories, and investigate careers in clusters and pathways prior to or during the time they create their individual Pathway Plans.

S E C O N D A R Y

YR	English/ Language Arts	Math	Science	Health/PE Social Studies	CTE/Career Preparation Courses for this Pathway		Additional Elective Courses
9	English 9	Algebra I	Biology	Physical Ed. Health requirements met with F&CS courses	Preparing for College and Careers Nutrition & Wellness		Computer Applications Personal Financial Responsibility World Language
10	English 10	Geometry	Chemistry	Geography/History of the World or World History/Civilization	Introduction to Culinary Arts	Advanced Nutrition & Wellness Interpersonal Relationships	World Language
11	English 11	Algebra II	3rd Core 40 Science	US History	** CULINARY ARTS & HOSPITALITY		World Language
12	English 12	Math or Quantitative Reasoning		Government Economics	** ADVANCED CULINARY ARTS		Introduction to Business Fine Arts

State specified Pathway Assessments: ProStart Level 1 and Level 2; Culinary Arts Pre-PAC; Dual credit final exams

Industry Recognized Certification: ProStart Certificate of Achievement; Culinary Arts Preprofessional Certification

P O S T S E C O N D A R Y

Courses Aligned for Potential Dual Credit **

** See individual Course Frameworks for alignment of high school course standards and postsecondary course objectives

Ivy Tech Community College

- HOSP 101 - Sanitation and First Aid
- HOSP 102 - Basic Food Theory and Skills
- HOSP 104 - Nutrition
- HOSP 105 - Intro. to Baking

Vincennes University

- CULN 110 - Quantity Food Production
- REST 120 - Food Service Sanitation
- REST 100 - Intro. Hospitality Management
- REST 155 - Quantity Food Purchasing



EARLY CHILDHOOD
EDUCATION

YOUR DOOR TO THE FUTURE



LA PORTE COUNTY **CAREER
& TECHNICAL EDUCATION**

A.K. SMITH CAREER CENTER

Early Childhood Education

Find a career helping to form young minds.



If you are considering a career in education, this program is an excellent place to start. You will experience direct interaction with children and be supervised under a licensed teacher. You will learn teaching techniques by preparing and supervising planned activities that will enhance young children's physical, emotional, social and intellectual development. You will definitely be in front of the learning curve when you start college, due to the experiences that you had in this class. By enrolling in the program for two years, you may earn the required clock hours needed to qualify for the National Child Development Associate (CDA) credential. You could earn dual credit with local colleges upon completion of each year. If you really like working with children, check into this program today!



INDIANA COLLEGE AND CAREER PATHWAY PLAN – STATE MODEL

Career Cluster: **EDUCATION AND TRAINING** Concentration: **EDUCATION AND EARLY CHILDHOOD** Pathway: **EDUCATION AND EARLY CHILDHOOD**

Core 40 with Honors High School Graduation Plan: This is a SAMPLE plan for schools to use in planning.

Course sequences and grade level in which courses are offered may vary according to local policies, practices and resources.

Students should enroll in Indiana Career Explorer, complete interest inventories, and investigate careers in clusters and pathways prior to or during the time they create their individual Pathway Plans.

S E C O N D A R Y

YR	English/ Language Arts	Math	Science	Health/PE Social Studies	CTE/Career Preparation Courses for this Pathway		Additional Elective Courses
9	English 9	Algebra I	Biology	Physical Ed. Health requirements met with F&CS courses	Preparing for College and Careers Nutrition & Wellness		Computer Applications Personal Financial Responsibility World Language
10	English 10	Geometry	Chemistry	Geography/History of the World or World History/Civilization	Child Development Adv. Child Development	Interpersonal Relationships	World Language
11	English 11	Algebra II	3rd Core 40 Science	US History	** EARLY CHILDHOOD EDUCATION I		World Language
12	English 12	Math or Quantitative Reasoning		Government Economics	** EARLY CHILDHOOD EDUCATION II		Fine Arts

State specified Pathway Assessments: Early Childhood Education Pre-PAC and/or Dual Credit Final Exams

Industry Recognized Certification: Early Childhood Education Pre Professional Certification; Child Development Associate (CDA)

P O S T S E C O N D A R Y

Courses Aligned for Potential Dual Credit **

** See individual Course Frameworks for alignment of high school course standards and postsecondary course objectives

Ivy Tech Community College

- ECED 100 - Introduction to Early Childhood Education
- ECED 101 - Health, Safety and Nutrition
- ECED 103 - Curriculum in Early Childhood Classroom or ECED 111 Environments for Infant & Toddler
- ECED 105 - CDA Process

PNC credits in progress



ELECTRONICS AND
COMPUTER
REPAIR

YOUR DOOR TO THE FUTURE

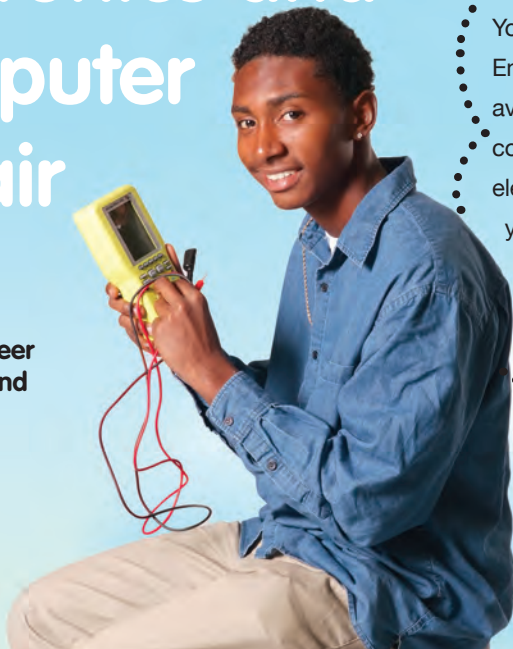


LA PORTE COUNTY **CAREER
& TECHNICAL EDUCATION**

A.K. SMITH CAREER CENTER

Electronics and Computer Repair

An exciting career in electronics and computers.



Your future is bright if you wish to enter this field as a career. Employment opportunities are expected to increase faster than the average rate for all occupations due to an increased demand for computers, communications equipment, military electronics, and electronic consumer goods. If you choose this “hands-on” program, you’ll have the opportunity to work on amplifiers, computers, fiber optics, robotics, home and car audio, security alarm systems and much more.



INDIANA COLLEGE AND CAREER PATHWAY PLAN – STATE MODEL

Career Cluster: **MANUFACTURING** Pathway: **ELECTRONICS & COMPUTER TECHNOLOGY**

Core 40 with Honors High School Graduation Plan: This is a SAMPLE plan for schools to use in planning.

Course sequences and grade level in which courses are offered may vary according to local policies, practices and resources.

Students should enroll in Indiana Career Explorer, complete interest inventories, and investigate careers in clusters and pathways prior to or during the time they create their individual Pathway Plans.

S E C O N D A R Y

YR	English/ Language Arts	Math	Science	Health/PE Social Studies	CTE/Career Preparation Courses for this Pathway		Additional Elective Courses
9	English 9	Algebra I	Biology	Health & Wellness/ Physical Ed.	Preparing for College and Careers		Computer Applications Personal Financial Responsibility World Language
10	English 10	Geometry	Chemistry	Geography/History of the World or World History/Civilization	Introduction to Manufacturing or Intro. to Advanced Manufacturing	Computers in Design & Production or PLTW Intro. to Engineering Design or Digital Electronics	World Language
11	English 11	Algebra II	3rd Core 40 Science	US History	** ELECTRONICS & COMPUTER TECHNOLOGY I		World Language
12	English 12	Math or Quantitative Reasoning		Government Economics	** ELECTRONICS & COMPUTER TECHNOLOGY II		Fine Arts

State specified Pathway Assessments: Dual credit assessment from Ivy Tech or Vincennes University

Industry Recognized Certification: Electronics Technician Association (ETA)- Associate Certified Electronics Technician; ESPA Certification

P O S T S E C O N D A R Y

Courses Aligned for Potential Dual Credit **

** See individual Course Frameworks for alignment of high school course standards and postsecondary course objectives

Ivy Tech Community College

- EECT 101 - Intro. to Electronics & Projects
- EECT 111 - Intro. to Circuits Analysis
- EECT 112 - Digital Fundamentals
- EECT 121 - Electronic Circuits Analysis

Vincennes University

- ELEC 100 - Basic Electricity and Electronics
- ELEC 110 - Basic Component & Circuit Analysis
- ELEC 130 - Digital Electronics

PNC credits in progress



ENGINEERING
(PLTW)

YOUR DOOR TO THE FUTURE



LA PORTE COUNTY **CAREER
& TECHNICAL EDUCATION**

A.K. SMITH CAREER CENTER

Engineering (PLTW)

There is a critical shortage of engineers and engineering technologists.



There is a critical shortage of engineers and engineering technologists entering the field at a time when technology is reinventing itself every few years. Of students who enter engineering programs at the college level, only 50% complete their engineering degree. The Engineering Courses in Career and Technical Education provides students with the opportunity to explore the world of engineering and engineering technology while gaining valuable skills that transfer to any career. The courses offered at MCHS, combined with traditional math and science courses, introduce students to the scope, rigor and discipline of engineering and engineering technology prior to entering college. Students receive training in current technology using the latest computer software and equipment used in industry. Students also participate in hands-on activities that utilize team efforts.



INDIANA COLLEGE AND CAREER PATHWAY PLAN – STATE MODEL

Career Cluster: **MANUFACTURING** Pathway: **ENGINEERING**

Core 40 with Honors High School Graduation Plan: This is a SAMPLE plan for schools to use in planning.

Course sequences and grade level in which courses are offered may vary according to local policies, practices and resources.

Students should enroll in Indiana Career Explorer, complete interest inventories, and investigate careers in clusters and pathways prior to or during the time they create their individual Pathway Plans.

S E C O N D A R Y

YR	English/ Language Arts	Math	Science	Health/PE Social Studies	CTE/Career Preparation Courses for this Pathway		Additional Elective Courses
9	English 9	Algebra I	Biology	Health & Wellness/ Physical Ed.	** Introduction to Engineering Design	Preparing for College & Careers	Computer Applications Personal Financial Responsibility World Language
10	English 10	Geometry	Chemistry	Geography/History of the World or World History/Civilization	** Principles of Engineering		World Language
11	English 11	Algebra II	3rd Core 40 Science	US History	** CHOOSE ONE OF THE THREE FOLLOWING COURSES: Civil Engineering & Architecture; Computer Integrated Manufacturing; Digital Electronics; Biotechnical Engineering; Aerospace Engineering		World Language
12	English 12	Math or Quantitative Reasoning		Government Economics	Engineering Design and Development		Fine Arts

State specified Pathway Assessments: National ECA

Industry Recognized Certification: Autodesk Inventor Certified User, Autodesk Inventor Certified Associate, Autodesk Inventor Certified Professional

P O S T S E C O N D A R Y

Courses Aligned for Potential Dual Credit **

** See individual Course Frameworks for alignment of high school course standards and postsecondary course objectives

Ivy Tech Community College

- ADMF 103 - Graphic Communications for Manufacturing OR
- DESN 102 - Technical Graphics
- ADMF 115 - Materials & Processes for Manufacturing
- ADMF 113 - Electrical & Processes for Manufacturing
- ADMF 116 - Automation & Robotics in Manufacturing I
- DESN 105 - Architectural Design I

Vincennes University

- ELEC 130 - Digital Logic I
- CIMT 125/ 125L - Intro. to Robotics/ Automation with Lab
- ARCH 221 - Advanced Architectural Software Applications

PNC credits in progress

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La Porte County Career & Technical Education - A.K. Smith Career Center 817 Lafayette Street Michigan City, IN 46360 (219) 873-2120



FACILITIES
MAINTENANCE

YOUR DOOR TO THE FUTURE



LA PORTE COUNTY **CAREER
& TECHNICAL EDUCATION**
A.K. SMITH CAREER CENTER

Facilities Maintenance



This program is a combination of classroom and laboratory activities that will provide the fundamentals necessary to obtain employment in the facilities maintenance field. Students will also explore the possibilities of housekeeping and entry level positions in the hospitality industry. The goal is to get students into the work environment so that they may work independently. This class is perfect for special needs students or for those who have an interest in fixing things! If you like not having to do the same thing everyday, this is the fit for you!



INDIANA COLLEGE AND CAREER PATHWAY PLAN – STATE MODEL

Career Cluster: **ARCHITECTURE AND CONSTRUCTION** Pathway: **BUILDING AND FACILITIES MAINTENANCE**

Core 40 with Honors High School Graduation Plan: This is a SAMPLE plan for schools to use in planning.

Course sequences and grade level in which courses are offered may vary according to local policies, practices and resources.

Students should enroll in Indiana Career Explorer, complete interest inventories, and investigate careers in clusters and pathways prior to or during the time they create their individual Pathway Plans.

S E C O N D A R Y

YR	English/ Language Arts	Math	Science	Health/PE Social Studies	CTE/Career Preparation Courses for this Pathway		Additional Elective Courses
9	English 9	Algebra I	Biology	Health & Wellness/ Physical Ed.	Preparing for College and Careers		Computer Applications Personal Financial Responsibility World Language
10	English 10	Geometry	Chemistry	Geography/History of the World or World History/Civilization	Introduction to Construction		World Language
11	English 11	Algebra II	3rd Core 40 Science	US History	BUILDING AND FACILITY MAINTENANCE		World Language
12	English 12	Math or Quantitative Reasoning		Government Economics	CONSTRUCTION TECHNOLOGY ICE FIELD EXPERIENCE/INTERNSHIP		Fine Arts

State specified Pathway Assessments: Dual credit assessment from Ivy Tech or Vincennes University or Home Builders Institute(HBI) Principles of Construction or Carpentry Basic assessments **Industry Recognized Certification:** Workplace Readiness Certification

P O S T S E C O N D A R Y

Courses Aligned for Potential Dual Credit **

** See individual Course Frameworks for alignment of high school course standards and postsecondary course objectives

Ivy Tech Community College

- CONT 101 - Introduction to Construction

Vincennes University

- CNST 120 - Construction Safety
- CNST 100 - Construction Seminar



HEALTH
ACADEMY

YOUR DOOR TO THE FUTURE



LA PORTE COUNTY **CAREER
& TECHNICAL EDUCATION**

A.K. SMITH CAREER CENTER

Health Academy

Now more than ever, jobs in hospitals and other healthcare facilities are unfilled.



Health careers are the fastest growing occupational area in the economy with a tremendous demand for trained employees. This class will focus on the vast number of diverse health career options including nursing, dental, radiography, phlebotomy, emergency medical technician, veterinary medicine, pharmacy, among the many other opportunities. You will learn about medical procedures in a hands-on environment. Many career options will be discussed. You will learn about basic anatomy and physiology as well as medical terminology. This class prepares you for the world of work, post-secondary training, or for additional advanced career and technical education courses such as Health Occupations.



INDIANA COLLEGE AND CAREER PATHWAY PLAN – STATE MODEL

Career Cluster: **HEALTH SCIENCE** Concentration: **NURSING** Pathway: **NURSING**

Core 40 with Honors High School Graduation Plan: This is a SAMPLE plan for schools to use in planning.

Course sequences and grade level in which courses are offered may vary according to local policies, practices and resources.

Students should enroll in Indiana Career Explorer, complete interest inventories, and investigate careers in clusters and pathways prior to or during the time they create their individual Pathway Plans.

S E C O N D A R Y

YR	English/ Language Arts	Math	Science	Health/PE Social Studies	CTE/Career Preparation Courses for this Pathway		Additional Elective Courses
9	English 9	Algebra I	Biology	Health & Wellness/ Physical Ed.	Preparing for College and Careers Nutrition & Wellness		Computer Applications Personal Financial Responsibility World Language
10	English 10	Geometry	Chemistry	Geography/History of the World or World History/Civilization	Interpersonal Relationships	Human Development and Wellness or Child Development	World Language
11	English 11	Algebra II	3rd Core 40 Science	US History	** HEALTH SCIENCE EDUCATION I (may include Medical Terminology)		World Language
12	English 12	Math or Quantitative Reasoning		Government Economics	** HEALTH SCIENCE EDUCATION II (may include Anatomy and Physiology)		Fine Arts

State specified Pathway Assessments: NCHSE Core Foundations; Nursing or Nursing Assistant programs may use the Certified Nurse Aide (CNA)

Industry Recognized Certification: CPR/AED Professional Rescuer(Healthcare Provider (this is not considered for TSA)

P O S T S E C O N D A R Y

Courses Aligned for Potential Dual Credit **

** See individual Course Frameworks for alignment of high school course standards and postsecondary course objectives

Ivy Tech Community College

- APHY 101 - Anatomy & Physiology I
- HLHS 100 - Introduction to Health Careers
- HLHS 101 - Medical Terminology
- HLHS 107 - CNA Preparation (CNA Prep – certification, HC support, and 1 credit toward Nursing degree)

Vincennes University

- HIMT 110 - Medical Terminology
- BIOL 111/111L – Essentials of Human Anatomy and Physiology

PNC credits in progress



WELDING

YOUR DOOR TO THE FUTURE



LA PORTE COUNTY CAREER
& TECHNICAL EDUCATION

A.K. SMITH CAREER CENTER

Welding



A trained welder has many opportunities in Northwest Indiana for a rewarding career in industry, construction, small job shops, or self-employment. You'll learn how to join metal parts by using a heating process during the course of this program. The experienced welder makes excellent wages, but must be willing to work under conditions that often require strenuous physical activity. Just remember, at the completion of this program, you'll be ready for employment.

Use your welding talents in industry or art!



INDIANA COLLEGE AND CAREER PATHWAY PLAN – STATE MODEL

Career Cluster: **MANUFACTURING** Pathway: **WELDING TECHNOLOGY**

Core 40 with Honors High School Graduation Plan: This is a SAMPLE plan for schools to use in planning.

Course sequences and grade level in which courses are offered may vary according to local policies, practices and resources.

Students should enroll in Indiana Career Explorer, complete interest inventories, and investigate careers in clusters and pathways prior to or during the time they create their individual Pathway Plans.

S E C O N D A R Y

YR	English/ Language Arts	Math	Science	Health/PE Social Studies	CTE/Career Preparation Courses for this Pathway		Additional Elective Courses
9	English 9	Algebra I	Biology	Health & Wellness/ Physical Ed.	Preparing for College and Careers		Computer Applications Personal Financial Responsibility World Language
10	English 10	Geometry	Chemistry	Geography/History of the World or World History/Civilization	Introduction to Manufacturing or Introduction to Advanced Manufacturing & Logistics	Computers in Design & Production or PLTW Intro. to Engineering Design	World Language
11	English 11	Algebra II	3rd Core 40 Science	US History	** WELDING TECHNOLOGY I		World Language
12	English 12	Math or Quantitative Reasoning		Government Economics	** WELDING TECHNOLOGY II		Fine Arts

State specified Pathway Assessments: AWS SENSE Level 1 Modules 2, 3, 8(units 1 and 3), and 9; + 1 Welding Process

Industry Recognized Certification: AWS SENSE Entry Level Certification

P O S T S E C O N D A R Y

Courses Aligned for Potential Dual Credit **

** See individual Course Frameworks for alignment of high school course standards and postsecondary course objectives

Ivy Tech Community College

- INDT 114 - Introductory Welding
- WELD 108 - Shielded Metal Arc Welding I
- WELD 207 - Gas Metal Arc (MIG) Welding
- WELD 100 - Welding Processes

Vincennes University

- WELD 101 - Oxy-Acetylene Welding
- WELD 103 - Gas Metal Arc Welding
- WELD 102 - Shielded Metal Arc Welding