
IHS COLLEGE AND CAREER READINESS HANDBOOK 2023-2024

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INDIANA AREA SENIOR HIGH SCHOOL

Dear IHS Families:

The Indiana Area Senior High School administration, school counselors, and faculty invite you to review the *2023-2024* IHS Course Description Handbook. The handbook is a valuable resource to prepare for the upcoming school year and for post-secondary planning.

This course description handbook will assist you to plan for an appropriate program of learning. Course descriptions, scheduling parameters, and graduation requirements information are included in the handbook. We encourage you to read the information and to communicate with school counselors and teachers to optimize scheduling decisions. Courses identified and described on the following pages are current as of the date of publication, and availability is subject to change based upon student enrollment and building scheduling needs.

We invite you to explore our expanded and enriched listing of Dual Credit Learning opportunities that provide students with valuable college learning experiences on and off campus at a significantly reduced tuition cost to families. Additionally, these courses can substitute for required core and elective IASD graduation requirements, as well as provide students with general elective learning opportunities.

Dual Enrollment at IUP allows students to take classes at the main campus, or online, if available, contingent upon scheduling availability. **College in High School**, or CHS, classes via Mt. Aloysius College and Westmoreland County Community College provide college-level rigor for students at the senior high school. Whether a student plans to take Dual Enrollment and/or College in High School coursework, we encourage you to work with the school counselor of your child and potential postsecondary institutions of learning to ensure that credit earned via dual credit learning opportunities maximizes credit transfer possibilities.

Additionally, please visit Graduation Requirements to discover new and revised information about IASD graduation requirements. The new graduation requirements provide our students with opportunity and flexibility to develop their best paths to graduation and to better become college, career, and life ready for their postsecondary experiences and endeavors.

We look forward to assisting you during this time of academic preparation. We wish you every success in the coming school year!

Sincerely,
Wade L. McElheny
Principal

Doug Johnson
Assistant Principal

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***[2023-2024 Scheduling forms](#)*`**

It is the policy of the Indiana Area School District not to discriminate on the basis of sex, race, religion, color, national origin, handicap or age in its educational and vocational programs, activities, or employment as required by Title IX, Section 504 and Title VI.



INDIANA AREA SENIOR HIGH SCHOOL

December 6, 2021

Dear IHS Student and Family,

Please find the following information about graduation requirements. The three components of graduation requirements include IHS Courses and Credits, Act 158 Pennsylvania Department of Education Graduation Pathways, and IHS Ready Culminating Graduation Project. Each component of the graduation requirements includes links to information, a video, and a slide presentation for your attention and consideration.

IHS Courses and Credits

[*IHS Courses and Credits Requirements - Info*](#)

[*IHS Courses and Credits Requirements - Video*](#)

[*IHS Courses and Credits Requirements - Slides*](#)

Act 158 Pennsylvania Department of Education Graduation Pathways

[*Act 158 PDE Graduation Requirements - Info*](#)

[*Act 158 PDE Graduation Requirements - Video*](#)

[*Act 158 PDE Graduation Requirements - Slides*](#)

IHS Ready Culminating Graduation Project

[*IHS Ready Culminating Graduation Project - Info*](#)

[*IHS Ready Culminating Graduation Project - Video*](#)

[*IHS Ready Culminating Graduation Project - Slides*](#)

Graduation Requirements Progress

[*Student and Parent PowerSchool Portal - Video*](#)

Thank you for your review of graduation requirements information. Please contact us should you have any questions.

IHS Agriculture, Food & Natural Resources Pathway (DRAFT)

Level	Grade	English (4.0 Credits)	Mathematics (3.0 Credits)	Science (3.0 Credits)	Social Studies (4.0 Credits)	Additional Requirements	Electives, Dual Credit, and CTE Programs	Curricular, Extracurricular, and CTE Activities
Indiana Area Senior High School <i>College in High School (CHS) classes are eligible to earn dual credit at the high school level with Westmoreland County Community College (WCCC) and Mt. Aloysius College.</i>	9	English 9 or Honors ELA 9	Pre-Algebra/ Algebra I or Higher (Keystone Exam)	Enviro Science or Higher	America & World II	Career and Work Readiness Computer Applications HPE 9-11	Accounting I CHS Accounting II Advanced Comp Apps. AP Computer. Science A'la Carte Baking Anat. & Phys. I/II Aspects of Eng. I/II Chef's Corner CADD Comp. Prog & Code I/II Desktop Publishing Digital Media Prod I-III Explore in Computer Sci. Fab. Process./Eng. Finance I/II Manf. Process./Eng. Marketing Science of Engineering Web Design World Language	Credit-Based Work Experience Senior Career Seminar Internship Lunch and Learn
	10	English 10 or Honors English 10 (Keystone Exam)	Algebra I/ Geometry or Higher	Biology or Higher (Keystone Exam)	America & World III or AP US History	Keystone Algebra I Exam Keystone Biology Exam Keystone Literature Exam	Comp. Prog & Code I/II Desktop Publishing Digital Media Prod I-III Explore in Computer Sci. Fab. Process./Eng. Finance I/II Manf. Process./Eng. Marketing Science of Engineering Web Design World Language	Job Shadowing Job Site Visit
	11	English 11 or CHS AP English Language	Geometry/ Algebra II or Higher	CHS Chemistry or AP Biology AP Chemistry AP Physics	American Government or CHS AP US Gov & Politics	Smart Futures Career Readiness Artifacts	Account. Princ. I Business Success Sem. Computer Literacy Financial Wellness Fund. of Computer Sci. Geog. of US & Canada Glob. Cities: Plan. & Dev. Human Anatomy Intro to Biomedical Ethics Intro to Comm Media Cult Prob & Statistics Problem Solving and Struct Prog	Computer Science Club Ecology Club FBLA Club
	12	English 12 or Communicating in a STEM World & Senior English Elective or AP English Literature	CHS Pre-Calculus or CHS Statistics or Integrated III or Higher	Physics or ForSci/Geo/Astro or AP Biology AP Chemistry AP Physics	CHS Economics & Senior Social Studies Elective or AP Macroeconomics or Foundations of Citizenship	IHS Ready Graduation Project IASD Graduation Requirements (24 Credits) Act 158 PDE Graduation Pathways Requirements	Account. Princ. I Business Success Sem. Computer Literacy Financial Wellness Fund. of Computer Sci. Geog. of US & Canada Glob. Cities: Plan. & Dev. Human Anatomy Intro to Biomedical Ethics Intro to Comm Media Cult Prob & Statistics Problem Solving and Struct Prog	Science Club Tech Ed Club
IUP Dual Enrollment Classes <i>Dual Enrollment courses earn dual credit at the high school level.</i>	11	*College Writing *English Composition	*College Algebra *Elementary Functions *Prob and Stats	*Energy and Our Environment *Exploring the Universe & Lab *Intro to Forensic Biology	*American Govt *Contemp Anthro *Cultural Anthro *Explorations in US History		ICTC - Culinary Arts Grades 10-12	ICTC - Cooperative Education (Program-based)
	12			*Physics I and Lab *The Dynamic Earth & Lab *The Physics of Light and Sound	*Gen Psychology *Intro Sociology *Principles of Macroeconomics		ICTC - Graphics and Electronics Technology ICTC - Information Technology ICTC - Machining Technology ICTC - Welding Technology	PSAT ASVAB ACT SAT

The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fuel, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

Sample Career Specialties / Occupations	<p>Agricultural Sales • Agricultural Communications Specialists • Agricultural Educators • Food Scientists • Meat Processors-Toxicologists • Biochemists-Nutritionists-Dieticians • Food Brokers-Food Inspectors • Meat Cutters-Meat Graders • Meat Science Researchers • Food Meal Supervisors • Cheese Makers • Microbiologists • Produce Buyers • Bacteriologists • Food & Drug Inspectors • Bioengineers • Biochemists • Food & Fiber Engineers • Food Processors • Storage Supervisors • Fieldman • Quality Control Specialists</p>	<p>Bioinformatics Specialists • Plant Breeders and Geneticists • Biotechnology Lab Technician • Soil & Water Specialists • Crop Farm Managers • Agricultural Educators • Plant Pathologists • Aquaculturalists • Sales Representatives • Botanists • Tree Surgeons • Education & Extension Specialists • Agricultural Journalists • Commodity Marketing Specialists • Grain Operations Superintendents • Custom Hay/Silage Operators • Forest Geneticists • Golf Course Superintendents • Greenhouse Managers • Growers • Farmers • Ranchers</p>	<p>Agricultural Educators • Livestock producers • AI Technicians-Aquaculturalists • Animal Caretakers-Poultry Managers • Equine Managers-Veterinarians • Veterinary Assistants-Feedlot Specialists • Animal Scientists • Embryo Technologists • Livestock Buyers • Feed Sales Representatives • Vivarian Technicians • Wildlife Biologists • Livestock Geneticists • Animal Nutritionists • Dairy Producers • Livestock Inspectors • Feed Sales Specialists • Animal Health Salespersons • Meat Science Researcher • Reproductive Physiologists • Embryo Transfer Technicians • Pet Shop Operators • USDA Inspectors</p>	<p>Machine Operators • Electronics Systems Technicians • Agricultural Engineers • Agricultural Extension Engineering Specialists • Heavy Equipment Maintenance Technicians • Recycling Technicians • Waste Water Treatment Plant Operators • Equipment/Parts Managers • Welders • Machinists • Communication Technicians • Agricultural Applications Software Developers/Programmers • Database Administrators • Computer Service Technical Support Technicians • Information Lab Specialists • GPS Technicians • Remote Sensing Specialist • Agricultural Educator</p>	<p>Cartographers • Wildlife Managers • Range Technicians • Ecologists Park Managers • Environmental Interpreters • Fish and Game Officers Loggers • Forest Technicians • Log Graders • Pulp and Paper Manager Soil Geology Technician • Geologists • Mining Engineers Fisheries Technicians • Water Monitoring Technician • Hydrologists • Fish Hatchery Manager Commercial Fishermen • Fishing Vessel Operators • Vessel Crew • Agricultural Educator</p>	<p>Pollution Prevention and Control Managers • Pollution Prevention and Control Technicians • Environmental Sampling and Analysis Scientists/Technicians • Health and Safety Sanitarians • Environmental Compliance Assurance Managers • Hazardous Materials Handlers • Hazardous Materials Technicians / Managers • Water Environment Managers • Water Quality Managers • Waste Water Managers • Toxicologists • Solid Waste Disposers / Recyclers • Solid Waste Technician • Solid Waste Managers • Solid Waste Specialists • Agricultural Educator</p>	<p>Salesperson • Sales Manager • Banker/Loan Officer • Field Representative for Bank, Insurance Company or Government Program • Farm Investment Manager • Agricultural Commodity Broker • Agricultural Economist • Farmer /Rancher/Feedlot Operator • Farm Manager • Livestock Rancher / Breeder • Dairy Herd Supervisor (DHIA) • Agricultural Products Buyer • Animal Health Products Distributor • Livestock Seller • Feed and Supply Store Manager • Produce Commission Agent • Ag Lenders • Agricultural Chemical Dealer • Field Service Representative • Chemical Sales Representative • Agricultural Educator</p>
	<p>Food Products and Processing Systems (Food Processing and preserving, Packaging, Distribution, Government monitoring & regulation)</p>	<p>Plant Systems (Agronomic, Horticulture, Forestry, Turf, Viticulture, Soils, etc.)</p>	<p>Animal Systems (Large animals, small animals, wildlife animals, and research animals)</p>	<p>Power, Structural & Technical Systems (Power, Structures, Controls, Geospatial Technology, Computer Systems, Electronics, Hydraulics, Pneumatics, etc.)</p>	<p>Natural Resources Systems (Habitat Conservation, Forest Products, Parks and Recreation, Mining, Environmental Services, Fisheries, Soil Conservation, etc.)</p>	<p>Environmental Service Systems (Pollution Prevention, Water & Air Quality, Hazardous Materials, Solid Waste Management, Health & Safety Sanitation, etc.)</p>	<p>Agribusiness Systems (Sales, Service, Farm and Ranch Management, Entrepreneurship, Economics, etc.)</p>

Available Credentials: [Coming Soon]

Sample Majors: IUP - Biology/Conservation, Economics, Environmental Engineering, Management, Nutrition, Regional Planning
WCCC - Baking & Pastry, Culinary Arts

Business / Industry Endorsements: [Coming Soon]

IHS Architecture & Construction Pathway (DRAFT)

Level	Grade	English (4.0 Credits)	Mathematics (3.0 Credits)	Science (3.0 Credits)	Social Studies (4.0 Credits)	Additional Requirements	Electives, <u>Dual Credit</u> , and <u>CTE Programs</u>	Curricular, <u>Extracurricular</u> , and <u>CTE Activities</u>
Indiana Area Senior High School <i>College in High School (CHS) classes are eligible to earn dual credit at the high school level with Westmoreland County Community College (WCCC) and Mt. Aloysius College.</i>	9	English 9 or Honors ELA 9	Pre-Algebra/ Algebra I or Higher (Keystone Exam)	Enviro Science or Higher	America & World II	Career and Work Readiness Computer Applications	Accounting I Architectural Design Architectural Drafting	Credit-Based Work Experience Senior Career Seminar Internship
	10	English 10 or Honors English 10 (Keystone Exam)	Algebra I/ Geometry or Higher	Biology or Higher (Keystone Exam)	America & World III or AP US History	HPE 9-11 -----	Art I Business Law CHS CADD	Lunch and Learn ----- <i>Job Shadowing</i>
	11	English 11 or CHS AP English Language	Geometry/ Algebra II or Higher	CHS Chemistry or AP Biology AP Chemistry AP Physics	American Government or CHS AP US Gov & Politics	Keystone Algebra I Exam Keystone Biology Exam	Fabrication Engineering Fabrication Processes	<i>Job Site Visit</i> ----- <i>Portfolio Club</i>
	12	English 12 or Communicating in a STEM World & Senior English Elective or AP English Literature	CHS Pre- Calculus or CHS Statistics or Integrated III or Higher	Physics or ForSci/Geo/Astro or AP Biology AP Chemistry AP Physics	CHS Economics & Senior Social Studies Elective or AP Macroeconomics or Foundations of Citizenship	Keystone Literature Exam ----- <i>Smart Futures Career Readiness Artifacts</i> <i>IHS Ready Graduation Project</i>	Manufacturing Engineering Manufacturing Processes Marketing Parametric Modeling Science of Engineering	<i>Tech Ed Club</i> ----- <u><i>ICTC - Cooperative Education (Program- based)</i></u> <u><i>ICTC - Pre- Apprenticeship (Program-based)</i></u>
IUP Dual Enrollment Classes <i>Dual Enrollment courses earn dual credit at the high school level.</i>	11	<i>*College Writing *English Composition</i>	<i>*College Algebra *Elementary Functions *Prob and Stats</i>	<i>*Energy and Our Environment *Exploring the Universe & Lab *Intro to Forensic Biology *Physics I and Lab *The Dynamic Earth & Lab *The Physics of Light and Sound</i>	<i>*American Govt *Contemp Anthro *Cultural Anthro *Explorations in US History *Gen Psychology *Intro Sociology *Principles of Macroeconomics</i>	<i>IASD Graduation Requirements (24 Credits) Act 158 PDE Graduation Pathways Requirements</i>	<i>Figure Drawing Foundations of Accounting ----- <u>ICTC - Carpentry, 10- 12</u> <u>ICTC - HVAC, 10-12</u> <u>ICTC - Masonry, 10-12</u></i>	<i>ICTC - Diversified Occupations for Seniors (Standalone program)</i> ----- PSAT ASVAB ACT SAT
	12							

Sample Career Specialties / Occupations	Architect • Architectural and Civil Drafter • Civil Engineer (structural, geotechnical, transportation, etc.) • Civil Engineering Technician • Code Official • Computer Aided Drafter (CAD) • Cost Estimator • Drafter • Electrical and Electronic Engineering Technician • Electrical Engineer (electronics, security, telecommunications) • Environmental Designer • Environmental Engineer (hydro engineering, acoustical, etc.) • Environmental Engineering Technician • Fire Prevention and Industrial Engineer • Interior Designer • Landscape Designer • Landscape Architect • Materials Engineer • Mechanical Drafter • Mechanical Engineer (HVAC, plumbing, fire protection, etc.) • Modeler (traditional and computer) Planner/Designer • Preservationist • Programmer • Protection Engineer • Regional and Urban Renderer (traditional and computer) • Specifications Writer • Building Surveying and Mapping Technician • Surveyor •	Boilermaker • Carpenter • Carpet Installer • Concrete Finisher • Construction Craft Laborer • Construction Engineer • Construction Foreman • Construction Inspector • Construction Manager • Drywall Installer • Education and Training Director/Coordinator • Electrical & Power Transmission Installer • Electrician • Electronic Systems Technician • Elevator Installer • Equipment and Material Manager • Estimator • Explosives Worker • Field Supervisor • Floor Layer • General Contractor/Builder • Glazier • Heating, Ventilation, Air Conditioning and Refrigeration Mechanic • Insulation Worker • Iron/Metalworker (structural and reinforcing) • Landscape/Groundskeeper • Lineworker • Manufacturer's Representative • NOTE: General contractors/Builders and Specialty contractors typically own the contracting company.	Mason • Millwright • Painter • Paperhanger • Pipe Fitter • Pipelayer • Pipeline Installer Plasterer/Drywall • Plumber • Preservationist • Project Inspector • Project Manager • Roofer • Safety Director • Sales and Marketing Manager • Scheduler • Security and Fire Alarm Systems Installer • Service Contractor • Sheetmetal Worker • Specialty Contractor • Specialty Trades Subcontractor • Steamfitter • Subcontractor • Superintendent • System Installer • Terrazo Worker and Finisher • Tile and Marble Setter •	Boilermaker • Carpenter • Carpet Installer • Concrete Finisher • Construction Manager • Construction Engineer • Construction Foreman • Construction Inspector • Cost Estimator • Demolition Engineer • Drywall Installer • Electrician • Electrician • Elevator Installer • Environmental Engineer • Equipment and Material Manager • Estimator • Facilities Engineer • Field Supervisor • General Maintenance Contractor • Glazier • Hazardous Materials Remover • Heating, Ventilation, Air Conditioning and Refrigeration Mechanic • Heavy Equipment Operator • Highway Maintenance Worker • Hydro Testing Technician • Insulation Worker • Insulation Worker • Iron/Metalworker (structural and reinforcing) • Landscape/Groundskeeper • Maintenance Estimator • Maintenance Planner/Scheduler • Manufacturer's Representative •	Mason • Millwright • Operating Engineer • Paperhanger • Pipe Fitter • Pipelayer • Plumber • Preservationist • Project Inspector • Project Manager • Refractory Technician • Relay Technician Reliability Engineer • Remodeler • Restoration Technician • Safety Director • Sales and Marketing Manager • Scheduler • Security and Fire Alarm System Installer • Security Controls Manager • Service Contractor • Sheetmetal Worker • Specialty Trades Contractor • Steamfitter • Subcontractor • Substation Mechanic Superintendent • System Installer • Terrazo Worker and Finisher • Thermal Control Technician • Tile and Marble Setter • Utility Metering &Reg. Technician Wastewater Maintenance •
	Design/Pre-Construction	Construction	Maintenance/Operations		
Pathways					

Available Credentials: [Coming Soon]

Sample Majors: IUP - Safety, Health, & Environ. Appl. Sci., Environmental Engrn., Management, Marketing, Regional Planning
WCCC - Architectural Drafting & Design, CADD/CAM

Business / Industry Endorsements: Indiana-Armstrong Builders Assoc., International Conveyor & Rubber, Mascaro Construction

IHS Arts, A/V Technology & Communications Pathway (DRAFT)

Level	Grade	English (4.0 Credits)	Mathematics (3.0 Credits)	Science (3.0 Credits)	Social Studies (4.0 Credits)	Additional Requirement s	Electives, <i>Dual Credit</i> , and <u>CTE Programs</u>	Curricular, <i>Extracurricular</i> , and <u>CTE Activities</u>
Indiana Area Senior High School <i>College in High School (CHS) classes are eligible to earn dual credit at the high school level with Westmoreland County Community College (WCCC) and Mt. Aloysius College.</i>	9	English 9 <i>or</i> Honors ELA 9	Pre-Algebra/ Algebra I <i>or</i> Higher (Keystone Exam)	Enviro Science <i>or</i> Higher	America & World II	Career and Work Readiness Computer Applications HPE 9-11 ----- ---	3 Dimensional Art Art I Band / Chorus / Orchestra Desktop Publishing Digital Media Prod I-III Drama I-II Fine Arts 9	Credit-Based Work Experience Senior Career Seminar Internship Lunch and Learn ----- <i>Job Shadowing</i>
	10	English 10 <i>or</i> Honors English 10 (Keystone Exam)	Algebra I/ Geometry <i>or</i> Higher	Biology <i>or</i> Higher (Keystone Exam)	America & World III <i>or</i> AP US History	----- ---	Journal - Newspaper Journalism - Yearbook Music Theory CHS Public Speaking Visual Arts 2D / 3D / Pottery Web Design World Languages ----- <i>Beginning Photography</i> <i>Ceramics</i> <i>Figure Drawing</i>	<i>Job Site Visit</i> ----- <i>Acoustic String Instrument Club</i> <i>Careers in Music Club</i> <i>Drama Club</i> <i>Portfolio Club</i> <i>Stage Crew</i> -----
	11	English 11 <i>or</i> CHS AP English Language	Geometry/ Algebra II <i>or</i> Higher	CHS Chemistry <i>or</i> AP Biology AP Chemistry AP Physics	American Government <i>or</i> CHS AP US Gov & Politics	Keystone Algebra I Exam Keystone Biology Exam	----- ---	<i>ICTC - Cooperative Education (Program-based)</i> <i>ICTC - Pre-Apprenticeship (Program-based)</i> <i>ICTC - Diversified Occupations for Seniors (Standalone program)</i> -----
	12	English 12 <i>or</i> Communicating in a STEM World & CHS Creative Writing <i>or</i> AP English Literature	CHS Pre-Calculus <i>or</i> CHS Statistics <i>or</i> Integrated III <i>or</i> Higher	Physics <i>or</i> ForSci/Geo/Astro <i>or</i> AP Biology AP Chemistry AP Physics	CHS Economics & Senior Social Studies Elective <i>or</i> AP Macroeconomics <i>or</i> Foundations of Citizenship	Keystone Literature Exam ----- ---	<i>IHS Ready Graduation Project</i> <i>IASD Graduation Requirements (24 Credits)</i> Act 158 PDE Graduation Pathways Requirements	PSAT ASVAB ACT SAT
IUP Dual Enrollment Classes <i>Dual Enrollment courses earn dual credit at the high school level.</i>	11	*College Writing *English Composition	*College Algebra *Elementary Functions *Prob and Stats	*Energy and Our Environment *Exploring the Universe & Lab *Intro to Forensic Biology	*American Govt *Contemp Anthro *Cultural Anthro *Explorations in US History *Gen Psychology *Intro Sociology	----- ---	----- ---	-----
	12			*Physics I and Lab *The Dynamic Earth & Lab *The Physics of Light and Sound	*Principles of Macroeconomics			

Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Sample Career Specialties/Occupations	<ul style="list-style-type: none"> ♦ Video Systems Technicians ♦ Video Graphics, Special Effects, and Animation ♦ Audio-Video Designers and Engineers ♦ Technical Computer Support Technicians, State, Film, Video, and DVD ♦ Audio-Video System Service Technicians ♦ Audio Systems Technicians 	<ul style="list-style-type: none"> ♦ Graphics and Printing Equipment Operators ♦ Lithographers and Platemakers ♦ Computer Typography and Composition Equipment Operators ♦ Desktop Publishing Specialists; Web Page Designers 	<ul style="list-style-type: none"> ♦ Commercial Photographers, Digital, Still, Video, Film ♦ Interior Designers, Commercial/Residential and Home Furnishings coordinators ♦ Graphic Designers, CAD Technicians, and Fashion Illustrators ♦ Textile Designers ♦ Commercial Artists, Illustrators, and Artists, all Media ♦ Curators and Gallery Managers ♦ Fashion Designers 	<ul style="list-style-type: none"> ♦ Production Managers, Digital, Video, Stage ♦ Cinematographers, Film/Video Editors ♦ Dancers ♦ Play Writers, Screen Writers, Screen Editors, Script Writers ♦ Directors and Coaches, Performers, actors, Musicians ♦ Make-Up Artists and Costume Designers ♦ Stagecraft Designers, Lighters, Sets, Sound Effects, Acoustics, Painters ♦ Composers, Conductors, and Music Instructors 	<ul style="list-style-type: none"> ♦ Audio/Video Operations, Control Room Technician ♦ Station Mangers and Radio & TV Announcers ♦ Publishers, Editors, and Journalists and Reporters, Print, Broadcast, Other ♦ Broadcast Technicians 	<ul style="list-style-type: none"> ♦ Telecommunication Technicians ♦ Telecommunication Equipment, Cable, Line Repairers/Installers ♦ Telecommunication Computer Programmers, and Systems Analysts
Pathways	Audio and Video Technology and Film	Printing Technology	Visual Arts	Performing Arts	Journalism and Broadcasting	Telecommunications

Available Credentials: [Coming Soon]

Sample Majors: IUP - Comm. Media, English, Fashion Studies, Interior Design, Journalism & Public Relations, Musical Theater, Studio Art
WCCC - Art Therapy, Communication Design, Graphic Design, Graphics & Publishing, Visual Arts

Business / Industry Endorsements: [Coming Soon]

IHS Business, Management, and Administration Pathway (DRAFT)

Level	Grade	English (4.0 Credits)	Mathematics (3.0 Credits)	Science (3.0 Credits)	Social Studies (4.0 Credits)	Additional Requirements	Electives, <u>Dual Credit</u> , and <u>CTE Programs</u>	Curricular, <u>Extracurricular</u> , and <u>CTE Activities</u>
Indiana Area Senior High School <i>College in High School (CHS) classes are eligible to earn dual credit at the high school level with Westmoreland County Community College (WCCC) and Mt. Aloysius College.</i>	9	English 9 or Honors ELA 9	Pre-Algebra/ Algebra I or Higher (Keystone Exam)	Enviro Science or Higher	America & World II	Career and Work Readiness Computer Applications	Accounting I CHS Accounting II Business Law	Credit-Based Work Experience Senior Career Seminar Internship
	10	English 10 or Honors English 10 (Keystone Exam)	Algebra II/ Geometry or Higher	Biology or Higher (Keystone Exam)	America & World III or AP US History	HPE 9-11 ----- - Keystone Algebra I Exam	International Business Marketing Leadership Seminar Pers. and Cons. Law	Lunch and Learn ----- <i>Job Shadowing</i> <i>Job Site Visit</i> -----
	11	English 11 or CHS AP English Language	Geometry/ Algebra II or Higher	CHS Chemistry or AP Biology AP Chemistry AP Physics	American Government or CHS AP US Gov & Politics	Keystone Biology Exam Keystone Literature Exam	Personal Finance I Personal Finance II CHS Public Speaking	----- <i>ATHENA Club</i> <i>FBLA Club</i> <i>Key Club</i> -----
	12	English 12 or Communicating in a STEM World & Senior English Elective or AP English Literature	CHS Pre-Calculus or CHS Statistics or Integrated III or Higher	Physics or ForSci/Geo/Astro or AP Biology AP Chemistry AP Physics	CHS Economics & Senior Social Studies Elective or AP Macroeconomics or Foundations of Citizenship	----- <i>Smart Futures Career Readiness Artifacts</i> <i>IHS Ready Graduation Project</i> <i>IASD Graduation Requirements (24 Credits)</i>	World Language ----- <i>Accounting I Principles</i> <i>Found. of Accounting</i> <i>Business Success Sem.</i> <i>Basic Economics</i> <i>Contemporary Moral Issues</i> <i>Financial Wellness</i> ----- <u>ICTC - Information Technology Systems, 10-12</u>	<i>Student Government Association</i> ----- <u><i>ICTC - Cooperative Education (Program-based)</i></u> <u><i>ICTC - Pre-Apprenticeship (Program-based)</i></u> <u><i>ICTC - Diversified Occupations for Seniors (Standalone program)</i></u> -----
IUP Dual Enrollment Classes Dual Enrollment courses earn dual credit at the high school level.	11	<i>*College Writing</i> <i>*English Composition</i>	<i>*College Algebra</i> <i>*Elementary Functions</i>	<i>*Energy and Our Environment</i> <i>*Exploring the Universe & Lab</i> <i>*Intro to Forensic Biology</i>	<i>*American Govt</i> <i>*Contemp Anthro</i> <i>*Cultural Anthro</i> <i>*Explorations in US History</i>	Act 158 PDE Graduation Pathways Requirements		
	12		<i>*Prob and Stats</i>	<i>*Physics I and Lab</i> <i>*The Dynamic Earth & Lab</i> <i>*The Physics of Light and Sound</i>	<i>*Gen Psychology</i> <i>*Intro Sociology</i> <i>*Principles of Macroeconomics</i>			PSAT ASVAB ACT SAT

Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector

Sample Career Specialties / Occupations	<p>Entrepreneur • Chief Executive Officer • General Manager • Accounting Manager • Accounts Payable Manager • Assistant Credit Manager • Billing Manager • Business & Development Manager • Compensation & Benefits Manager • Credit & Collections Manager • Payroll Manager • Risk Manager • Operations Manager • Public Relations Manager • Human Resource Manager • Management Analyst • Facilities Manager • Association Manager • Sports & Entertainment Manager • Hospital Manager • Government Manager • Public Organization Manager • Manufacturing Manager • Purchasing Manager • First Line Supervisor • Senior Manager • Management Trainee • Small Business Owner</p>	<p>• Information Systems Manager • Accounting Clerk • Accounting Supervisor • Adjuster • Chief Technology Officer • Auditor • Bookkeeper • Budget Analyst • Budget Manager • Billing Supervisor • Management Analyst • Controller • Merger & Acquisitions Manager • Price Analyst • Top Collections Executive • Information Technology Director • Chief Financial Officer • Finance Director • Certified Public Accountant • Project Manager • Cost Accountant • Librarian • Payroll Accounting Clerk</p>	<p>Human Resources Manager • International Human Resources Manager • Human Resources Coordinator • Industrial Relations Director • Compensation & Benefits Manager • Employment & Placement Manager • Employee Assistance Plan Manager • Training & Development Manager • Human Resources Consultant • Corporate Trainer • Training & Development Specialist • Conciliator/Mediator/Arbitrator • Employer Relations Representative • Labor & Personnel Relations Specialist • Affirmative Action Coordinator • Equal Employment Opportunity Specialist • OSHA/ADA Compliance Officer • Pay Equity Officer • Interpreter/Translator • Organizational Behaviorist • Occupational Analyst • Compensation, Benefits & Job Analyst Specialist • Human Resources Information Systems Specialist • Meeting & Convention Planner • Employment Interviewer, Private or Public Employment Service • Personnel Recruiter • Human Resources Assistant • Payroll Professional • Identification Clerk • Human Resources Generalist</p>	<p>• Training and Development Manager • Operations Analyst • Sales Manager • Sales Representative • Broker • Agent • Assistant Store Manager • Department Manager • Assistant Department Manager • Salesperson • Customer Service Supervisor • Product Manager • Project Manager • Research & Development Manager • Budget Analyst • International Merchandising Manager & Supervisor • Marketing Manager • E-commerce Manager & Entrepreneur • Wholesale & Retail buyer • International Distribution Manager • Warehouse Manager • Logistics Manager/Supervisor • Logistics Manager/Coordinator • Marketing Information Manager • Public Relations Specialist • Distribution Worker • Wholesale, Freight, Stocking, Handling, Material Moving and Packing Worker • Traffic, Shipping, & Receiving Clerk • Demonstrator and Product Promoter • Supply Chain Manager • Director of Non-Profit Agency/Organization • Operations Specialties Manager • Industrial Production Manager</p>	<p>Administrative Assistant • Executive Assistant • Office Manager • Administrative Support • Information Assistant • Desktop Publisher • Customer Service Assistant • Data Entry Specialist • Receptionist • Communications Equipment Operator • Computer Operator • Stenographer • Dispatcher • Shipping & Receiving Assistant • Word Processor • Medical Transcriptionist • Legal Secretary • Paralegal</p>
	General Management	Business Information Management	Human Resources Management	Operations Management	Administrative Support

Available Credentials: [Coming Soon]

Sample Majors: IUP - Accounting, Economics, Fashion Studies, Finance, Information Systems, Intl. Business, Management, Marketing
WCCC - Business Administration, Entrepreneurship, Finance, Human Resources, Management, Marketing

Business / Industry Endorsements: [Coming Soon]

IHS Education & Training Pathway (DRAFT)

Level	Grade	English (4.0 Credits)	Mathematics (3.0 Credits)	Science (3.0 Credits)	Social Studies (4.0 Credits)	Additional Requirements	Electives, <u>Dual Credit</u> , and <u>CTE Programs</u>	Curricular, <u>Extracurricular</u> , and <u>CTE Activities</u>
Indiana Area Senior High School <i>College in High School (CHS) classes are eligible to earn dual credit at the high school level with Westmoreland County Community College (WCCC) and Mt. Aloysius College.</i>	9	English 9 or Honors ELA 9	Pre-Algebra/ Algebra I or Higher (Keystone Exam)	Enviro Science or Higher	America & World II	Career and Work Readiness Computer Applications HPE 9-11 -----	Child Development CHS Creative Writing Desktop Publishing Digital Media Production Fine Arts 9 Marketing	Credit-Based Work Experience Senior Career Seminar Internship Lunch and Learn ----- <i>Job Shadowing</i> <i>Job Site Visit</i> ----- <i>ATHENA Club</i> <i>Culture Club</i> <i>Drama Club</i> <i>Fellowship of Christian Athletes Club</i> <i>FBLA</i> <i>Key Club</i> <i>Love is Love Club</i> <i>Me to We Club</i> <i>Student Government Association</i> <i>[Subject Area Club]</i> -----
	10	English 10 or Honors English 10 (Keystone Exam)	Algebra I/ Geometry or Higher	Biology or Higher (Keystone Exam)	America & World III or AP US History	-----	[Musical Arts] CHS Public Speaking Science of Engineering World Language -----	-----
	11	English 11 or CHS AP English Language	Geometry/ Algebra II or Higher	CHS Chemistry or AP Biology AP Chemistry AP Physics	American Government or CHS AP US Gov & Politics	Keystone Algebra I Exam Keystone Biology Exam	-----	-----
	12	English 12 or Communicating in a STEM World & Senior English Elective or AP English Literature	CHS Pre- Calculus or CHS Statistics or Integrated III or Higher	Physics or ForSci/Geo/Astro or AP Biology AP Chemistry AP Physics	CHS Economics & CHS Psychology or AP Macroeconomics or Foundations of Citizenship	Keystone Literature Exam ----- <i>Smart Futures Career Readiness Artifacts</i> <i>IHS Ready Graduation Project</i>	<i>Child Development</i> <i>Computer Literacy</i> <i>Critical Thinking</i> <i>Health and Wellbeing</i> <i>Intro to Art</i> <i>Intro to Religion</i> <i>Public Speaking</i> <i>Soc Relations in Groups & Org</i> ----- <u>ICTC - Subject Area Programming</u>	----- <u>ICTC - Cooperative Education (Program- based)</u> <u>ICTC - Pre- Apprenticeship (Program-based)</u> <u>ICTC - Diversified Occupations for Seniors (Standalone program)</u> ----- <i>PSAT</i> <i>ASVAB</i> <i>ACT</i> <i>SAT</i>
IUP Dual Enrollment Classes Dual Enrollment courses earn dual credit at the high school level.	11	<i>*College Writing</i> <i>*English Composition</i>	<i>*College Algebra</i> <i>*Elementary Functions</i> <i>*Prob and Stats</i>	<i>*Energy and Our Environment</i> <i>*Exploring the Universe & Lab</i> <i>*Intro to Forensic Biology</i>	<i>*American Govt</i> <i>*Contemp Anthro</i> <i>*Cultural Anthro</i> <i>*Explorations in US History</i> <i>*Gen Psychology</i> <i>*Intro Sociology</i>	<i>IASD Graduation Requirements (24 Credits)</i> <i>Act 158 PDE Graduation Pathways Requirements</i>	-----	-----
	12			<i>*Physics I and Lab</i> <i>*The Dynamic Earth & Lab</i> <i>*The Physics of Light and Sound</i>	<i>*Principles of Macroeconomics</i>			

Planning, managing and providing education and training services, and related learning support services.

Sample Career Specialties / Occupations	<ul style="list-style-type: none"> Elementary and Secondary Superintendents, Principals, Administrators •Supervisors and Instructional Coordinators •Education Researchers, Test Measurement Specialists/ Assessment Specialists •College Presidents, Deans, Department Chairs, Program Coordinators Post-Secondary Administrators •Curriculum Developers •Instructional Media Designers Education and Training Technician Labor Relations Managers/Specialists 	<ul style="list-style-type: none"> •Psychologists- Clinical, Developmental, Social •Social Workers •Parent Educators •Counselors •Program Advisors •Financial Aid Advisors •Career Counselors/ Advisors •Career and Employment Placement Counselors •Speech-Language Pathologists and Audiologists •Instructional Resources Coordinator •Technology Support Administrator Database Administrators/AV Specialists •Distance Education Coordinator Human Resources Manager Organization Development Specialist Training Manager/Coordinator Instructional Coordinators Museum Coordinators/Technicians Media Coordinators/Specialists Instructional Media Designer 	<ul style="list-style-type: none"> • Preschool, Kindergarten Teachers, Aides •Elementary Teachers, Aides •Secondary/CTE Teachers, Aides •Special Education Teachers, Aides •College/University Lecturers, Professors Human Resource Trainers Physical Trainers Professional Coaches •Preschool & Child Care Program Directors •Child Care Assistants/Workers •Child Life Specialist •Nanny •Early Childhood Teachers and Assistants • Instructional Systems Specialist Corporate Trainers and Educators Adult Literacy Teachers Librarians/Assistants/ Technicians
Pathways	Administration and Administrative Support	Professional Support Services	Teaching/Training

Available Credentials: [Coming Soon]

Sample Majors: IUP - Disability Svcs., Early Childhood, Psychology, Sociology, Speech-Language Pathology, Teacher Certification programs
WCCC - Early Childhood Education, Elementary Education (PK-4)

Business / Industry Endorsements: Progressive Workshop, Rutledge Educational Consulting, Technology and Entrepreneurship Center

IHS Finance Pathway (DRAFT)

Level	Grade	English (4.0 Credits)	Mathematics (3.0 Credits)	Science (3.0 Credits)	Social Studies (4.0 Credits)	Additional Requirements	Electives, <u>Dual Credit</u> , and <u>CTE Programs</u>	Curricular, <u>Extracurricular</u> , and <u>CTE Activities</u>
Indiana Area Senior High School <i>College in High School (CHS) classes are eligible to earn dual credit at the high school level with Westmoreland County Community College (WCCC) and Mt. Aloysius College.</i>	9	English 9 or Honors ELA 9	Pre-Algebra/ Algebra I or Higher (Keystone Exam)	Enviro Science or Higher	America & World II	Career and Work Readiness Computer Applications	Accounting I CHS Accounting II Business Law	Credit-Based Work Experience Senior Career Seminar Internship
	10	English 10 or Honors English 10 (Keystone Exam)	Algebra II/ Geometry or Higher	Biology or Higher (Keystone Exam)	America & World III or AP US History	HPE 9-11 ----- -	International Business Personal and Consumer Law	Lunch and Learn ----- <i>Job Shadowing</i>
	11	English 11 or CHS AP English Language	Geometry/ Algebra II or Higher	CHS Chemistry or AP Biology AP Chemistry AP Physics	American Government or CHS AP US Gov & Politics	Keystone Algebra I Exam Keystone Biology Exam	Personal Finance I-II ----- ----	<i>Job Site Visit</i> ----- <i>ATHENA Club</i>
	12	English 12 or Communicating in a STEM World & Senior English Elective or AP English Literature	CHS Pre-Calculus or CHS Statistics or Integrated III or Higher	Physics or ForSci/Geo/Astro or AP Biology AP Chemistry AP Physics	CHS Economics & Senior Social Studies Elective or AP Macroeconomics or Foundations of Citizenship	Keystone Literature Exam ----- - <i>Smart Futures Career Readiness Artifacts</i>	<i>Accounting Principles I</i> <i>Business Success Seminar</i> <i>Financial Wellness</i> <i>Foundations of Accounting</i> ----- ----	<i>Leadership Seminar</i> ----- <i>ICTC - Cooperative Education (Program-based)</i> <i>ICTC - Pre-Apprenticeship (Program-based)</i> <i>ICTC - Diversified Occupations for Seniors (Standalone program)</i> -----
IUP Dual Enrollment Classes <i>Dual Enrollment courses earn dual credit at the high school level.</i>	11	<i>*College Writing</i> <i>*English Composition</i>	<i>*College Algebra</i> <i>*Elementary Functions</i> <i>*Prob and Stats</i>	<i>*Energy and Our Environment</i> <i>*Exploring the Universe & Lab</i> <i>*Intro to Forensic Biology</i>	<i>*American Govt</i> <i>*Contemp Anthro</i> <i>*Cultural Anthro</i> <i>*Explorations in US History</i>	<i>IHS Ready Graduation Project</i> <i>IASD Graduation Requirements (24 Credits)</i>		
	12			<i>*Physics I and Lab</i> <i>*The Dynamic Earth & Lab</i> <i>*The Physics of Light and Sound</i>	<i>*Gen Psychology</i> <i>*Intro Sociology</i> <i>*Principles of Macroeconomics</i>	<i>Act 158 PDE Graduation Pathways Requirements</i>		<i>PSAT</i> <i>ASVAB</i> <i>ACT</i> <i>SAT</i>

Planning, services for financial and investment planning, banking, insurance, and business financial management.

Sample Career Specialties / Occupations	Personal Financial Advisors • Tax Preparation Specialists • Sales Agents- Securities, Commodities • Investment Advisors • Brokerage Representatives • Development Officers • Securities/Investments Analysts • Stock Brokers	Accountants • Financial Analysts • Treasurers, Controllers and Chief Revenue Agents • Auditors • Economists • Tax Auditors • Collectors • Revenue Agents • Benefits Specialists • Real Estate Analysts • Certified Purchasing Professionals • Client Managers	Credit Analysts • Loan Officers • Account Representatives • Tellers • Loan Processors • Customer Service Reps • Data Processors • Internal Auditors • Compliance Officers • Title Researchers & Examiners • Abstractors • Repossession Agents • Network Service Representatives • Operations Managers • Debt Counselors	Claims Representatives, Examiners, and Investigators • Insurance Appraisers • Underwriters • Actuaries • Sales Agents • Customer Service Agents • Processing Clerks • Direct Marketing Representatives • Insurance Brokers • Loss Prevention Specialists
Pathways	Securities & Investments	Business Finance	Banking Services	Insurance

Available Credentials: *[Coming Soon]*

Sample Majors: *IUP - Accounting, Finance, Human Resource Management, Marketing*
 WCCC -

Business / Industry Endorsements: *S&T Bank*

IHS Government & Public Administration Pathway (DRAFT)

Level	Grade	English (4.0 Credits)	Mathematics (3.0 Credits)	Science (3.0 Credits)	Social Studies (4.0 Credits)	Additional Requirements	Electives, Dual Credit, and CTE Programs	Curricular, Extracurricular, and CTE Activities
Indiana Area Senior High School <i>College in High School (CHS) classes are eligible to earn dual credit at the high school level with Westmoreland County Community College (WCCC) and Mt. Aloysius College.</i>		English 9 or Honors ELA 9	Pre-Algebra/ Algebra I or Higher (Keystone Exam)	Enviro Science or Higher	America & World II	Career and Work Readiness Computer Applications HPE 9-11 -----	Business Law International Business Law and Justice Leadership Seminar Personal and Consumer Law CHS Public Speaking World Language ----- <i>Business Success Seminar</i> <i>Contemporary Moral Issues</i> <i>Contemporary Social Problems</i> <i>Crime and Justice Systems</i> <i>Public Speaking</i> <i>World Politics</i> -----	Credit-Based Work Experience Senior Career Seminar Internship Lunch and Learn ----- <i>Job Shadowing</i> <i>Job Site Visit</i> ----- <i>ATHENA</i> <i>FBLA</i> <i>Student Government Association</i> ----- <u><i>ICTC - Cooperative Education (Program-based)</i></u> <u><i>ICTC - Pre-Apprenticeship (Program-based)</i></u> <u><i>ICTC - Diversified Occupations for Seniors (Standalone program)</i></u> ----- <i>PSAT</i> <i>ASVAB</i> <i>ACT</i> <i>SAT</i>
	10	English 10 or Honors English 10 (Keystone Exam)	Algebra I/ Geometry or Higher	Biology or Higher (Keystone Exam)	America & World III or AP US History			
	11	English 11 or CHS AP English Language	Geometry/ Algebra II or Higher	CHS Chemistry or AP Biology AP Chemistry AP Physics	American Government or CHS AP US Gov & Politics	Keystone Algebra I Exam Keystone Biology Exam		
	12	English 12 or Communicating in a STEM World & Senior English Elective or AP English Literature	CHS Pre-Calculus or CHS Statistics or Integrated III or Higher	Physics or ForSci/Geo/Astro or AP Biology AP Chemistry AP Physics	CHS Economics & Law and Justice or AP Macroeconomics or Foundations of Citizenship	Keystone Literature Exam ----- <i>Smart Futures Career Readiness Artifacts</i> <i>IHS Ready Graduation Project</i> <i>IASD Graduation Requirements (24 Credits)</i> <i>Act 158 PDE Graduation Pathways Requirements</i>		
IUP Dual Enrollment Classes <i>Dual Enrollment courses earn dual credit at the high school level.</i>	11	<i>*College Writing</i> <i>*English Composition</i>	<i>*College Algebra</i> <i>*Elementary Functions</i> <i>*Prob and Stats</i>	<i>*Energy and Our Environment</i> <i>*Exploring the Universe & Lab</i> <i>*Intro to Forensic Biology</i> <i>*Physics I and Lab</i> <i>*The Dynamic Earth & Lab</i> <i>*The Physics of Light and Sound</i>	<i>*American Govt</i> <i>*Contemp Anthro</i> <i>*Cultural Anthro</i> <i>*Explorations in US History</i> <i>*Gen Psychology</i> <i>*Intro Sociology</i> <i>*Principles of Macroeconomics</i>			
	12							

Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.

Sample Career Specialties / Occupations	President Vice President Governor Lieutenant Governor Mayor Cabinet Level Secretary (Fed./ State) Representative (Fed/State) Senator (Fed/State) Assistants, Deputies, and Chiefs of Staff Commissioner (County, Parish, City) Commissioner (State Agency) Congressional Aide Legislative Aide Legislative Assistant Specialist Lobbyist Policy Advisor	National Security Advisor Staff or Field Officer Officer/Specialist: Electronic Warfare Operations Combat Operations Infantry Field Artillery Air Defense Artillery Special Forces Armor Munitions Nuclear Weapons Missile and Space Systems Military Intelligence Signals Intelligence Surface Ship Warfare Officer Submarine Officer Combat Control Officer Combat Engineer Combat Aircraft Pilot/Crew Airborne Warning/Control Specialist Intelligence/Counterintelligence Agent/Specialist Intelligence Analyst Cryptographer	Ambassador Foreign Service Officer: Consular Officer Administrative Officer Political Officer Economic Officer Diplomatic Courier	Business/Enterprise Official Chief of Vital Statistics Commissioner Director (Various Agencies) Economic Development Coordinator Federal Aid Coordinator Census Clerk County Director Census Enumerator Planner Program Associate Global Imaging Systems Specialist	Assessor Tax Auditor Internal Revenue Investigator Revenue Agent/Officer Tax Examiner/Assistant/Clerk Inspector General Tax Attorney Tax Policy Analyst	Business Regulation Investigator Chief of Field Operations Code Inspector/Officer Director Equal-Opportunity Officer Inspector Investigator/Examiner Chief Bank Examiner Bank Examiner Aviation Safety Officer Border Inspector Cargo Inspector Election Supervisor Enforcement Specialist Immigration Officer	City Manager City Council City or County Clerk Court Administrator or Clerk Executive Director/Officer/Associate: Foundation Association Charitable Organization Industrial Foundation Chamber of Commerce General Service Officer Management Analysis Officer Program Administration Officer
	Governance	National Security	Foreign Service	Planning	Revenue and Taxation	Regulation	Public Management and Administration

Available Credentials: [Coming Soon]

Sample Majors: IUP - Comm. Media, Economics, Geography & GIS, Intl. Business, Journalism & Public Relations, Political Science
WCCC -

Business / Industry Endorsements: [Coming Soon]

IHS Health Science Pathway (DRAFT)

Level	Grade	English (4.0 Credits)	Mathematics (3.0 Credits)	Science (3.0 Credits)	Social Studies (4.0 Credits)	Additional Requirements	Electives, <u>Dual Credit</u> , and <u>CTE Programs</u>	Curricular, <u>Extracurricular</u> , and <u>CTE Activities</u>
Indiana Area Senior High School <i>College in High School (CHS) classes are eligible to earn dual credit at the high school level with Westmoreland County Community College (WCCC) and Mt. Aloysius College.</i>	9	English 9 or Honors ELA 9	Pre-Algebra/ Algebra I or Higher (Keystone Exam)	Enviro Science or Higher	America & World II	Required Electives Career and Work Readiness Computer Applications HPE 9-11	Anatomy & Phys. I Anatomy & Phys. II Child Development CHS Public Speaking Science of Engineering ----- <i>Contemporary Moral Issues</i> Human Anatomy Intro. to Biomedical Ethics ----- <u>ICTC - Health Occupations Technology, 10-12</u>	Credit-Based Work Experience Senior Career Seminar Internship Lunch and Learn ----- <i>Job Shadowing</i> <i>Job Site Visit</i> ----- Science Club ----- <u>ICTC - Cooperative Education (Program- based)</u> <u>ICTC - Pre- Apprenticeship (Program- based)</u> <u>ICTC - Diversified Occupations for Seniors (Standalone program)</u> ----- PSAT ASVAB ACT SAT
	10	English 10 or Honors English 10 (Keystone Exam)	Algebra I/ Geometry or Higher	Biology or Higher (Keystone Exam)	America & World III or AP US History	PA State Assessments Keystone Algebra I Exam Keystone Biology Exam Keystone Literature Exam		
	11	English 11 or CHS AP English Language	Geometry/ Algebra II or Higher	CHS Chemistry or AP Biology AP Chemistry AP Physics	American Government or CHS AP US Gov & Politics			
	12	English 12 or Communicating in a STEM World & Senior English Elective or AP English Literature	CHS Pre- Calculus or CHS Statistics or Integrated III or Higher	Physics or ForSci/Geo/Astro or AP Biology AP Chemistry AP Physics	CHS Economics & CHS Psychology or AP Macroeconomics or Foundations of Citizenship	Other Activities Smart Futures Career Readiness Artifacts IHS Ready Graduation Project IASD Graduation Requirements (24 Credits) Act 158 PDE Graduation Pathways		
IUP Dual Enrollment Classes Dual Enrollment courses earn dual credit at	11	<i>*College Writing</i> <i>*English Composition</i>	<i>*College Algebra</i> <i>*Elementary Functions</i> <i>*Prob and Stats</i>	<i>*Energy and Our Environment</i> <i>*Exploring the Universe & Lab</i> <i>*Intro to Forensic Biology</i> <i>*Physics I and Lab</i>	<i>*American Govt</i> <i>*Contemp Anthro</i> <i>*Cultural Anthro</i> <i>*Explorations in US History</i> <i>*Gen Psychology</i> <i>*Intro Sociology</i>			
	12							

the high
school level.

**The Dynamic Earth
& Lab*

**The Physics of
Light and Sound*

**Principles of
Macroeconomics*

Requirements



Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Sample Career Specialties/Occupations	Acupuncturist Anesthesiologist/Assistant Anesthesia Technologist/Technician Art/Music/Dance Therapist(s) Athletic Trainer Audiologist Certified Nursing Assistant Chiropractor Chiropractic Assistant Dental Assistant/Hygienist Dental Lab Technician Dietitian/Nutritionist Dosimetrist EMT/Paramedic Endodontist Exercise Physiologist Home Health Aide Kinesiotherapist Licensed Practical Nurse Massage Therapist Medical Assistant Mental Health Counselor Naturopathic Doctor Nurse Anesthetist Nurse Midwife Nurse Practitioner Occupational Therapist/Assistant Oral Surgeon Orientation/Mobility Specialist Orthodontist Orthoptist Orthotist/Prosthetist/Technician Podiatrist Perfusionist Pharmacist Pharmacy Technician Physical Therapist/Assistant Physician (MD/DO) Physician Assistant Podiatrist Psychologist Psychiatrist Radiation Therapist Recreation Therapist Registered Nurse Rehabilitation Counselor Respiratory Therapist Speech-Language Therapist Surgical Technician Veterinarian Veterinarian Assistant/Technician Vision Rehabilitation Therapist Wellness Coach	Audiologist Blood Bank Technology Specialist Cardiovascular Technologist Clinical Lab Technician Clinical Laboratory/Technologist Computer Tomography (CT) Technologist Cytogenetic Technologist Cytotechnologist Dentist Diagnostic Medical Sonographer Electrocardiographic (ECG) Technician Electroneurodiagnostic Technologist Electronic Diagnostic (EEG) Technologist Exercise Physiologist Geneticist Geriatrician Histotechnician Histotechnologist Magnetic Resonance Technologist Mammographer Medical Technologist/ Clinical Laboratory Scientist Nuclear Medicine Technologist Optician Ophthalmologist Ophthalmic Assistant/Technologist Optometrist Pathologist Pathologists' Assistant Phlebotomist Polysomnographic Technologist Positron Emission Tomography (PET) Technologist Radiologic Technologist Radiologist Speech-Language Pathologist	Admitting Clerk Applied Researcher Compliance Technician Clinical Account Manager Clinical Account Technician Clinical Data Specialist Community Services Specialists Data Quality Manager Epidemiologist Ethicist Health Educator Health Information Mgmt. Administrator Health Information Mgmt. Technician Healthcare Access Manager Healthcare Administrator Healthcare Finance Informatician Information Privacy Officer Managed Care Contract Analyst Medical Coder Medical Historian Medical Illustrator Medical Information Technologist Medical Librarian Medical Transcriptionist Patient Account Manager Patient Account Technician Patient Advocate Patient Information Coordinator Project Manager Public Health Educator Quality Management Specialist Quality Data Analyst Research and Decision Support Specialist Reimbursement Specialist Risk Manager Unit Coordinator Utilization Manager Utilization Review Manager	Animal Behaviorist Biomedical/Clinical Engineer Biomedical/Clinical Technician Clinical Simulator Technician Central Service Manager Central Service Technician Community Health Worker Dietary Manager Dietetic Technician Environmental Health Advocate Environmental Health Practitioner Environmental Services/ Specialist Facilities Manager Food Safety Specialist Health Advocate Hospital Maintenance Engineer Industrial Hygienist Interpreter Martial, Couple, Family Counselor/Therapist Materials Manager Medical Health Counselor Mortician/ Funeral Director Nurse Educator Occupational Health Nurse Occupational Health & Safety Expert Social Worker Transport Technician	Biochemist Bioinformatics Scientist Biomedical Chemist Biomedical Manufacturing Technician Biostatistician Cancer Registrar Cell Biologist Clinical Data Management Specialist Clinical Pharmacologist Clinical Trials Monitor Clinical Trials Research Coordinator Crime Scene Investigator Diagnostic Molecular Scientist Forensic Biologist Forensic Chemist Forensic Odontologist Forensic Pathologist Genetic Counselor Geneticist-Lab Assistant Lab Technician Medical Editor/Writer Microbiologist Molecular Biologist Nurse Researcher Packaging Technician Patent Lawyer Pharmaceutical/Clinical Project Manager Pharmaceutical Sales Representative Pharmaceutical Scientist Pharmacokineticist Pharmacologist Product Safety Scientist Process Development Scientist Processing Technician Quality Assurance Technician Quality Control Technician Regulatory Affairs Specialist Research Assistant Research Scientist Toxicologist
Pathways	Therapeutic Services	Diagnostics Services	Health Informatics	Support Services	Biotechnology Research and Development

Available Credentials: [Coming Soon]

Sample Majors: IUP - Biology, Chemistry, Medical Technology, Nursing, Public Health, Pre-Med., Pre-Pharma., Pre-Phys. Therapy
WCCC - Dental Assistant, Dental Hygiene, Medical Assistant, Nursing, Phlebotomy, Radiation Technology

Business / Industry Endorsements: Citizens' Ambulance Service, Sleppy Chiropractic

IHS Hospitality & Tourism Pathway (DRAFT)

Level	Grade	English (4.0 Credits)	Mathematics (3.0 Credits)	Science (3.0 Credits)	Social Studies (4.0 Credits)	Additional Requirements	Electives, <u>Dual Credit</u> , and <u>CTE Programs</u>	Curricular, <u>Extracurricular</u> , and <u>CTE Activities</u>
Indiana Area Senior High School <i>College in High School (CHS) classes are eligible to earn dual credit at the high school level with Westmoreland County Community College (WCCC) and Mt. Aloysius College.</i>	9	English 9 or Honors ELA 9	Pre-Algebra/ Algebra I or Higher (Keystone Exam)	Enviro Science or Higher	America & World II	Required Electives Career and Work Readiness Computer Applications	Accounting I CHS Accounting II A'La Carte Baking Chef's Corner	Credit-Based Work Experience Senior Career Seminar Internship Lunch and Learn <hr/> <i>Job Shadowing</i>
	10	English 10 or Honors English 10 (Keystone Exam)	Algebra I/ Geometry or Higher	Biology or Higher (Keystone Exam)	America & World III or AP US History	HPE 9-11	Desktop Publishing Drama I-II Marketing	<hr/> <i>Job Site Visit</i> <hr/> <i>Ambassador Club</i> <i>ATHENA Club</i> <i>Drama Club</i> <i>Ecology Club</i> <i>FBLA Club</i>
	11	English 11 or CHS AP English Language	Geometry/ Algebra II or Higher	CHS Chemistry or AP Biology AP Chemistry AP Physics	American Government or CHS AP US Gov & Politics	PA State Assessments Keystone Algebra I Exam Keystone Biology Exam Keystone Literature Exam	Personal Finance I-II World Language I-V <hr/> <i>Accounting Principles I</i> <i>Financial Wellness</i> <i>Foundations of Accounting</i> <i>Intro to Theater</i>	<hr/> <i>French / German / Spanish Club</i> <i>Leadership Seminar</i> <i>Portfolio Club</i> <hr/> <i>ICTC - Cooperative Education (Program- based)</i> <i>ICTC - Pre- Apprenticeship (Program-based)</i>
	12	English 12 or Communicating in a STEM World & Senior English Elective or AP English Literature	CHS Pre- Calculus or CHS Statistics or Integrated III or Higher	Physics or ForSci/Geo/Astro or AP Biology AP Chemistry AP Physics	CHS Economics & Senior Social Studies Elective or AP Macroeconomics or Foundations of Citizenship	<hr/> Other Activities <i>Smart Futures Career Readiness Artifacts</i>	<hr/> <i>ICTC - Culinary Arts, 10-12</i> <i>ICTC - Heating,</i>	<hr/> <i>ICTC - Diversified Occupations for Seniors (Standalone program)</i>

IUP Dual Enrollment Classes Dual Enrollment courses earn dual credit at the high school level.	11	<i>*College Writing</i> <i>*English Composition</i>	<i>*College Algebra</i> <i>*Elementary Functions</i> <i>*Prob and Stats</i>	<i>*Energy and Our Environment</i> <i>*Exploring the Universe & Lab</i> <i>*Intro to Forensic Biology</i> <i>*Physics I and Lab</i> <i>*The Dynamic Earth & Lab</i> <i>*The Physics of Light and Sound</i>	<i>*American Govt</i> <i>*Contemp Anthro</i> <i>*Cultural Anthro</i> <i>*Explorations in US History</i> <i>*Gen Psychology</i> <i>*Intro Sociology</i> <i>*Principles of Macroeconomics</i>	IHS Ready Graduation Project IASD Graduation Requirements (24 Credits) Act 158 PDE Graduation Pathways Requirements	<u>Ventilation, and Air Conditioning 10-12</u>	<hr/> PSAT ASVAB ACT SAT
	12							

Hospitality & Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.

Sample Career Specialties/Occupations	General Manager • Food & Beverage Manager • Kitchen Manager • Catering & Banquets Manager • Service Manager • Dining Room Supervisor • Restaurant Owner • Baker • Brewer • Caterer • Dietician • Executive Chef • Cook • Pastry & Specialty Chef • Bartender • Restaurant Server • Banquet Server • Cocktail Server • Banquet Set-Up Employee • Bus Person • Room Service Attendant • Kitchen Steward • Counter Server • Wine Steward • Host • Research and Development Chef • Food/Beverage Wholesaler • Product Demonstrator • Personal Chef	Front Office Manager • Executive Housekeeper • Director of Sales & Marketing • Chief Engineer • Director of Human Resources • Rooms Division Manager • Director of Security • Controller • Food & Beverage Director • Resident Manager • Director of Operations • General Manager • Regional Manager • Quality Assurance Manager • Corporate Management • Lodging Management • Owner/Franchisee • Uniformed Services Support • Communications Supervisor • Front Desk Supervisor • Reservations Supervisor • Laundry Supervisor • Room Supervisor • Bell Captain • Shift Supervisor • Sales Professional • Night Auditor • Front Desk Employee • Valet Attendant • Bell Attendant • Door Attendant • Concierge • Reservationist • Guestroom Attendant • Public Space Cleaner • House Person • Maintenance Worker • Van Driver	Executive Director • Assistant Director • Director of Tourism Development • Director of Membership Development • Director of Communications • Director of Visitor Services • Director of Sales • Director of Marketing and Advertising • Director of Volunteer Services • Director of Convention and Visitors Bureau • Market Development Manager • Group Sales Manager • Events Manager • Sales Manager • Destination Manager • Convention Services Manager • Heritage Tourism Developer • Travel Agent (Commercial & Vacation) • Event Planner • Meeting Planner • Special Events Producer • Nature Tourism Coordinator • Tour and Travel Coordinator • Tourism Marketing Specialist • Transportation Specialist • Welcome Center Supervisor • Visitor Center Counselor • Tourism Assistant • Executive Assistant • Tour Guide • Tour Operator • Motor Coach Operator • Tour and Ticket Reservationist • Interpreter	Club Manager • Club Assistant Manager • Club Instructor • Club Equipment & Facility Maintenance • Club Scheduler • Club Event Planner • Club Membership Developer • Parks & Gardens Director • Parks & Gardens Activity Coordinator • Parks & Gardens Access Management • Parks & Gardens Safety & Security • Parks & Garden Ranger • Resort Trainer • Resort Instructor • Resort Equipment Maintenance • Resort Scheduler • Gaming & Casino Manager • Gaming & Casino Supervisor • Gaming & Casino Dealer • Gaming & Casino Slot Supervisor and Maintenance • Gaming & Casino Security & Safety • Fairs/Festival Event Planner • Fairs/Festival Set up Supervisor • Fairs/Festival Facility Manager • Fairs/Festival Promotional Developer • Theme Parks/Amusement Parks Resale Department Manager • Theme Parks/Amusement Parks Area Retail Manager • Theme Parks/Amusement Parks Area Ride Operations Manager • Theme Parks/Amusement Parks Group Events Manager • Family Centers Manager • Family Centers Equipment Operator/Maintenance • Historical/Cultural/Architectural Ecological Industrial Sites Guides/Ranger • Historical/Cultural/Architectural Ecological Industrial Sites Exhibit Developer • Museums/Zoos/Aquariums Docent • Museum/Zoos/Aquariums Animal Trainer and Handler • Museums/Zoos/Aquariums Exhibit Developer
	Restaurants and Food/Beverage Services	Lodging	Travel & Tourism	Recreation, Amusements & Attractions

Available Credentials: [Coming Soon]

Sample Majors: IUP - Finance; Hotel, Restaurant, Tourism, & Event Mgmt.; Human Res. Mgmt.; Marketing; Nutrition; Culinary Arts Certificate
WCCC - Dietary Management, Lodging Management, Restaurant Management

Business / Industry Endorsements: [Coming Soon]

IHS Human Services Pathway (DRAFT)

Level	Grade	English (4.0 Credits)	Mathematics (3.0 Credits)	Science (3.0 Credits)	Social Studies (4.0 Credits)	Additional Requirements	Electives, <u>Dual Credit, and CTE Programs</u>	Curricular, <u>Extracurricular,</u> and <u>CTE Activities</u>
Indiana Area Senior High School <i>College in High School (CHS) classes are eligible to earn dual credit at the high school level with Westmoreland County Community College (WCCC) and Mt. Aloysius College.</i>	9	English 9 or Honors ELA 9	Pre-Algebra/ Algebra I or Higher (Keystone Exam)	Enviro Science or Higher	America & World II	Required Electives Career and Work Readiness Computer Applications HPE 9-11	Accounting I CHS Accounting II Anatomy & Phys. I-II Child Development & Preschool International Business Marketing Personal Finance I-II Personal Fitness CHS Public Speaking	Credit-Based Work Experience Senior Career Seminar Internship Lunch and Learn ----- <i>Job Shadowing</i> <i>Job Site Visit</i> ----- <i>FBLA Club</i> <i>Fellowship of Christian Athletes Club</i> <i>Leadership Seminar</i> <i>Love is Love Club</i> <i>Me to We Club</i> -----
	10	English 10 or Honors English 10 (Keystone Exam)	Algebra I/ Geometry or Higher	Biology or Higher (Keystone Exam)	America & World III or AP US History	PA State Assessments Keystone Algebra I Exam Keystone Biology Exam Keystone Literature Exam	<i>Accounting Principles I</i> <i>Business Success Seminar</i> <i>Financial Wellness</i> <i>Foundations of Accounting</i> <i>Health and Wellbeing</i> <i>Healthy People - Promoting Wellness</i> <i>Human Anatomy</i> <i>Intro to Dance</i> <i>Intro to Religion</i> <i>Nutritional Wellness</i>	----- <i>ICTC - Cooperative Education (Program- based)</i> <i>ICTC - Pre- Apprenticeship (Program-based)</i> <i>ICTC - Diversified Occupations for Seniors (Standalone program)</i> -----
	11	English 11 or CHS AP English Language	Geometry/ Algebra II or Higher	CHS Chemistry or AP Biology AP Chemistry AP Physics	American Government or CHS AP US Gov & Politics	Other Activities <i>Smart Futures Career Readiness Artifacts</i>	<i>ICTC - Cosmetology, 10-12</i> <i>ICTC - Culinary Arts, 10-12</i> <i>ICTC - Health Occupations Technology, 10-12</i>	----- PSAT ASVAB ACT SAT
	12	English 12 or Communicating in a STEM World & Senior English Elective or AP English Literature	CHS Pre- Calculus or CHS Statistics or Integrated III or Higher	Physics or ForSci/Geo/Astro or AP Biology AP Chemistry AP Physics	CHS Economics & CHS Psychology / CHS Sociology or AP Macroeconomics or Foundations of Citizenship			
IUP Dual Enrollment Classes	11	<i>*College Writing</i> <i>*English Composition</i>	<i>*College Algebra</i> <i>*Elementary Functions</i>	<i>*Energy and Our Environment</i> <i>*Exploring the Universe & Lab</i>	<i>*American Govt</i> <i>*Contemp Anthro</i> <i>*Cultural Anthro</i>	IHS Ready Graduation Project IASD Graduation Requirements (24		

Dual Enrollment courses earn dual credit at the high school level.	12		<i>*Prob and Stats</i>	<i>*Intro to Forensic Biology</i> <i>*Physics I and Lab</i> <i>*The Dynamic Earth & Lab</i> <i>*The Physics of Light and Sound</i>	<i>*Explorations in US History</i> <i>*Gen Psychology</i> <i>*Intro Sociology</i> <i>*Principles of Macroeconomics</i>	Credits) <i>Act 158 PDE Graduation Pathways Requirements</i>		
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Preparing individuals for employment in career pathways that relate to families and human needs.

Sample Career Specialties / Occupations	<ul style="list-style-type: none"> • Directors, Childcare Facilities • Assistant Directors, Childcare Facilities • Elementary School Counselors • Preschool Teachers • Educators for Parents • Nannies • Teachers' Assistants • Childcare Assistants/Workers 	<ul style="list-style-type: none"> • Clinical and Counseling Psychologists • Industrial-Organizational Psychologists • Sociologists • Career Coaches • School Counselors/Psychologists • Substance Abuse and Behavioral Disorder Counselors • Mental Health Counselors • Vocational Rehabilitation Counselors • Career Counselors • Career Facilitators • Employment Counselors • Residential Advisors • Marriage, Child and Family Counselors 	<ul style="list-style-type: none"> • Community Service Directors • Adult Day Care Coordinators • Coordinators of Volunteers • Licensed Professional Counselors • Religious Leaders • Directors, Religious Activities/Education Programs • Human Services Workers • Social Services Workers • Vocational Rehabilitation Counselors • Employment Counselors • Career Counselors • Vocational Rehabilitation Service Workers • Leisure Activities Coordinators • Dieticians • Geriatric Service Workers • Adult Day Care Workers • Residential Advisors • Emergency and Relief Workers • Community Food Service Workers • Community Housing Service Workers • Social and Human Services Assistants 	<ul style="list-style-type: none"> • Barbers • Cosmetologists, Hairdressers, & Hairstylists • Shampooers • Nail Technicians, Manicurists & Pedicurists • Skin Care Specialists/Estheticians • Electrolysis Technicians • Electrologists • Funeral Directors/Morticians • Embalmers • Funeral Attendants • Personal and Home Care Aides • Companions • Spa Attendants • Personal Trainers • Massage Therapists 	<ul style="list-style-type: none"> • Consumer Credit Counselors • Consumer Affairs Officers • Consumer Advocates • Certified Financial Planners • Insurance Representatives • Bankers • Real Estate Services Representatives • Financial Advisors • Investment Brokers • Employee Benefits Representatives • Hospital Patient Accounts Representatives • Customer Service Representatives • Consumer Research Department Representatives • Consumer Goods or Services Retailing Representatives • Market Researchers • Account Executives • Sales Consultants • Event Specialists • Inside Sales Representatives • Field Merchandising Representatives • Buyers • Small Business Owners
Pathways	Early Childhood Development & Services	Counseling & Mental Health Services	Family & Community Services	Personal Care Services	Consumer Services

Available Credentials: **[Coming Soon]**

Sample Majors: IUP - Disability Services, Human Devel. & Family Science, Nutrition, Psychology, Public Health, Sociology, Religious Studies
WCCC - Human Resource Management

Business / Industry Endorsements: Chevy Chase Community Center, Big League Haircuts

IHS Information Technology Pathway (DRAFT)

Level	Grade	English (4.0 Credits)	Mathematics (3.0 Credits)	Science (3.0 Credits)	Social Studies (4.0 Credits)	Additional Requirements	Electives, <u>Dual Credit</u> , and <u>CTE Programs</u>	Curricular, <u>Extracurricular</u> , and <u>CTE Activities</u>
Indiana Area Senior High School <i>College in High School (CHS) classes are eligible to earn dual credit at the high school level with Westmoreland County Community College (WCCC) and Mt. Aloysius College.</i>	9	English 9 or Honors ELA 9	Pre-Algebra/ Algebra I or Higher (Keystone Exam)	Enviro Science or Higher	America & World II	Required Electives Career and Work Readiness Computer Applications	Advanced Computer Applications AP Computer Science CADD Computer Programming and Coding I	Credit-Based Work Experience Senior Career Seminar Internship Lunch and Learn
	10	English 10 or Honors English 10 (Keystone Exam)	Algebra I/ Geometry or Higher	Biology or Higher (Keystone Exam)	America & World III or AP US History	HPE 9-11	Computer Programming and Coding II Desktop Publishing Digital Media Prod I-III	----- <i>Job Shadowing</i> <i>Job Site Visit</i> ----- <i>Computer Science Club</i>
	11	English 11 or CHS AP English Language	Geometry/ Algebra II or Higher	CHS Chemistry or AP Biology AP Chemistry AP Physics	American Government or CHS AP US Gov & Politics	PA State Assessments Keystone Algebra I Exam Keystone Biology Exam Keystone Literature Exam	Explorations in Computer Science Science of Engineering Web Design ----- <i>Computer Literacy</i> <i>Fundamentals of Computer Science</i> <i>Introduction to Comm Media and Culture</i>	----- <i>FBLA Club</i> <i>Tech Ed Club</i> ----- <u><i>ICTC - Cooperative Education (Program- based)</i></u>
	12	English 12 or Communicating in a STEM World &	CHS Pre- Calculus or CHS Statistics or	Physics or ForSci/Geo/Astro or AP Biology	CHS Economics & Senior Social Studies Elective or	Other Activities		<u><i>ICTC - Pre- Apprenticeship (Program-based)</i></u>

		Senior English Elective or AP English Literature	Integrated III or Higher	AP Chemistry AP Physics	AP Macroeconomics or Foundations of Citizenship	Smart Futures Career Readiness Artifacts	Problem Solving and Struct Prog	<u>ICTC - Diversified Occupations for Seniors (Standalone program)</u>
IUP Dual Enrollment Classes <i>Dual Enrollment courses earn dual credit at the high school level.</i>	11	*College Writing *English Composition	*College Algebra *Elementary Functions *Prob and Stats	*Energy and Our Environment *Exploring the Universe & Lab *Intro to Forensic Biology *Physics I and Lab *The Dynamic Earth & Lab *The Physics of Light and Sound	*American Govt *Contemp Anthro *Cultural Anthro *Explorations in US History *Gen Psychology *Intro Sociology *Principles of Macroeconomics	IHS Ready Graduation Project IASD Graduation Requirements (24 Credits)	<u>ICTC - Computer Systems Technologies</u> Grades 10-12	PSAT ASVAB ACT SAT
	12					Act 158 PDE Graduation Pathways Requirements		

Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.

Sample of Career Specialties / Occupations	<p>Network Design and Administration: Communications Analyst * Data Communications Analyst * Information Systems Administrator * Information Systems Operator * Information Technology Engineer Network Consulting Engineer Network Pre-Sales Engineer Network: Administrator * Analyst * Architect * Engineer * Manager * Operations Analyst * Security Analyst * Specialist * Technician * Transport Administrator PC Support Specialist * Systems: Administrator * Engineer * Support Lead Technical Support Specialist * User Support Specialist Telecommunications Network Technician</p>	<p>Database Development and Administration: Data: Administrator * Analyst * Architect * Management Associate * Modeler * Modeling Specialist Database: Administration Associate * Administrator * Analyst * Developer * Manager * Modeler * Security Expert * DSS (Decision Support Services) * Knowledge Architect Senior: Database Administrator * Systems Analyst Systems: Administrator * Analyst Tester Technical Writer: Desktop Publisher * Document Specialist * Documentation Specialist * Editor Electronic Publications Specialist * Publisher Instructional Designer, Online Publisher Technical Communicator * Editor * Publications Manager * Writer Technical Support: Analyst * Call Center Support Representative * Content Manager Customer: Liaison * Service Representative * Service Professional Help Desk Specialist * Technician Maintenance Technician * PC Support Specialist * PC Systems Coordinator * Product Support Engineer * Sales Support Technician * Technical: Account Manager * Support Engineer * Support Representative Testing Engineer Enterprise Systems Analysis and Integration: Application Integrator * Business Continuity Analyst * Cross-Enterprise Integrator Data: Systems Designer * Systems Manager * Warehouse Designer E-Business Specialist * Electronic Transactions Implementer Information Systems: Architect * Planner Systems: Analyst * Architect * Integrator</p>	<p>Digital Media: 2D/3D Artist * Animator * Audio/Video Engineer * Designer * Media Specialist * Media/Instructional Designer Multimedia: Author * Authoring Specialist * Developer * Specialist Producer * Production Assistant * Programmer * Streaming Media Specialist * Virtual Reality Specialist Web: Designer * Producer * Specialist Web Development and Administration: Web: Administrator * Architect * Designer * Page Developer * Producer * Site Developer * Specialist Webmaster Web Developer Social Networking Specialist Blog Developer * Search Engine Marketing Specialist Search Engine Optimization Specialist</p>	<p>Programming / Software Engineering: Applications: Analyst * Engineer Business Analyst * Computer Engineer * Data Modeler Operating System: Designer/Engineer * Programmer Analyst Program Manager * Programmer * Programmer/Analyst * Project Lead Software Applications: Specialist * Architect * Design Engineer * Development Engineer * Engineer * QA Specialist * Tester Systems: Analyst * Administrator Test Engineer * Tester</p>
Pathways	Network Systems	Information Support and Services	Web and Digital Communications	Programming and Software Development

Available Credentials: *[Coming Soon]*

Sample Majors: *IUP - Computer Science, Information Systems, Information Technology*
WCCC -

Business / Industry Endorsements: *[Coming Soon]*

IHS Law, Public Safety, Corrections & Security Pathway (DRAFT)

Level	Grade	English (4.0 Credits)	Mathematics (3.0 Credits)	Science (3.0 Credits)	Social Studies (4.0 Credits)	Additional Requirements	Electives, Dual Credit, and CTE Programs	Curricular, Extracurricular, and CTE Activities
Indiana Area Senior High School <i>College in High School (CHS) classes are eligible to earn dual credit at the high school level with Westmoreland County Community College (WCCC) and Mt. Aloysius College.</i>	9	English 9 or Honors ELA 9	Pre-Algebra/ Algebra I or Higher (Keystone Exam)	Enviro Science or Higher	America & World II	Required Electives Career and Work Readiness Computer Applications	Accounting I CHS Accounting II Anatomy & Physiology I-II Business Law Forensic Science Law and Justice Personal and Consumer Law	Credit-Based Work Experience Senior Career Seminar Internship Lunch and Learn ----- <i>Job Shadowing</i> <i>Job Site Visit</i> ----- <i>ATHENA Club</i> <i>Aviation Club</i> <i>Computer Science Club</i> <i>Leadership Seminar</i> <i>Science Club</i> <i>SGA</i> ----- <i>ICTC - Cooperative Education (Program-based)</i> <i>ICTC - Pre-Apprenticeship (Program-based)</i> ----- <i>ICTC - Diversified Occupations for Seniors (Standalone program)</i> ----- PSAT ASVAB ACT SAT
	10	English 10 or Honors English 10 (Keystone Exam)	Algebra I/ Geometry or Higher	Biology or Higher (Keystone Exam)	America & World III or AP US History	HPE 9-11 ----- PA State Assessments Keystone Algebra I Exam Keystone Biology Exam Keystone Literature Exam	----- Crime and Justice Systems Foundations of Accounting Human Anatomy Intro to Forensic Biology	
	11	English 11 or CHS AP English Language	Geometry/ Algebra II or Higher	CHS Chemistry or AP Biology AP Chemistry AP Physics	American Government or CHS AP US Gov & Politics	----- Other Activities Smart Futures Career Readiness Artifacts IHS Ready Graduation Project IASD Graduation Requirements (24		
	12	English 12 or Communicating in a STEM World & Senior English Elective or AP English Literature	CHS Pre-Calculus or CHS Statistics or Integrated III or Higher	Physics or ForSci/Geo/Astro or AP Biology AP Chemistry AP Physics	CHS Economics & CHS Sociology / Law and Justice or AP Macroeconomics or Foundations of Citizenship			
IUP Dual Enrollment Classes	11	<i>*College Writing</i> <i>*English Composition</i>	<i>*College Algebra</i> <i>*Elementary Functions</i>	<i>*Energy and Our Environment</i> <i>*Exploring the Universe & Lab</i>	<i>*American Govt</i> <i>*Contemp Anthro</i> <i>*Cultural Anthro</i>			

Dual Enrollment courses earn dual credit at the high school level.	12		*Prob and Stats	*Intro to Forensic Biology *Physics I and Lab *The Dynamic Earth & Lab *The Physics of Light and Sound	*Explorations in US History *Gen Psychology *Intro Sociology *Principles of Macroeconomics	Credits) Act 158 PDE Graduation Pathways Requirements		
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Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.

Sample Career Specialties / Occupations	Warden• Jail Administrator• Mid-level Manager• Program Coordinator and Counselor• Public Information Officer• Correctional Trainer• Case Manager • Attorney • Community Corrections Practitioner• Probation/parole officer• Corrections Educator• Corrections Officer• Detention Deputy• Detention and Deportation Officer• Case Manager Youth Services Worker• Facility Maintenance Workers• Transport Officer• Food Service Staff• Medical Staff• Dietitian• Support Staff	Emergency Management and Response Coordinator •Emergency Planning Manager•EMT•Fire Fighter•Mgr/Supv. of Fire Fighters•Forest Fire Fighter• Mgr/Supv. of Forest Fire Fighters•Forest Fire Inspector & Investigator•Hazardous Materials Responder •Emergency Dispatchers for Police, Fire and Ambulance •Training Officer •Grant Writer and Coordinator •Rescue Workers • Consequence Management Specialist • Surety Officer • Fire Protection Inspector • Paramedic (Licensed) • Training and Exercises Program Analyst • Canine Enforcement Officer (Training) • Fire Protection Engineer • Infrastructure Analyst Specialist • Operations Analyst • Program Specialist (National Security) • Program Specialist (Response, Preparedness, Recovery/Mitigation)	Security Director•Corporate/Agency Security Director/VP•Corporate Director of Sales•Security Systems Designer/Consultant•Physical Security Specialist Consultant•Student Trainee – Investigations •Computer Forensics specialist•Private/Corporate Investigator•Loss Prevention/Security Manager (e.g. Store, hotel)•Security Trainer/Educator•Security Sales Representative/Manager• Loss Prevention Specialist•Physical Security Assistant•Security Systems Technician (Install/maintain)•Investigative Assistant (private sector) •Security Trainer (Basics)•Canine Enforcement Officer• Transportation Security Supervisor•Information Security Assistant (Document Control)•Personnel Security Assistant•Executive Protection Officer (Private)• Supervisory Security officer (armed, unarmed)•Certified Security Officer (SPO, POST, Arrest Authority)•Armored Car Guard•Control Center Operator (e.g. ADT) (Monitoring Center)• Uniformed Security Officer (Unarmed -- proprietary and contract)•Security Clerk• Transportation Security Technician•Loss Prevention Assistant•Uniformed Security officer (armed)•Computer Security Specialist•Computer Forensics Examiner•Executive Protection Specialist•Gaming Surveillance Specialist•Information Security specialist•Information Technology Security•Armored Car Guards•Industrial Espionage Security•Life Guard, Ski Patrol, •Physical Property Security•Private Security Specialist •Infrastructure Analyst – Specialist •IT Specialist (Information Security) • Intelligence Research-Operations Specialist •Operations Analyst •Port Security Specialist •Transportation Security Screener	•Animal Control Officer •Bailiffs •Child Support •Missing Persons •Unemployment Fraud Investigators •Aircraft Operations Officer •Criminal Investigators & Special Agents • Adjudicator •Air Enforcement Officer •Gaming Investigator •Bomb Technician •Game Enforcement Officer •Highway Patrol Pilots •Immigration & Customs Inspectors •Mgr/Supv. Police & Detectives •Police Detectives and Criminal Investigators •Air Marshall •Police, Fire & Ambulance Dispatchers •Police & Patrol Officers •Private Detectives & Investigators •Sheriffs & Deputy Sheriffs •Training Officer •Transit & Railroad Police •Park Ranger •Evidence Technician •Federal Marshall •Border Patrol Agent •Canine Enforcement Officer •Customs and Border Protection Officer • Deportation Officer •Document Analyst • Fingerprint Identification Technician •Forensic Science Technician •Import Specialist •IT Specialist (Information Security) •Intelligence Research - Operations Specialist •Port Security Specialist •Marine Enforcement Officer	•Administrative Law •Attorney •Case Management Specialist •Court Reporter •File and Document Manager • Adjudicator •Information Officer • Student Trainee - Legal •Investigator •Judge • Asylum Officer – Hearings and Appeals •Law Clerk •Legal Assistant •Legal Secretary •Magistrate •Mediator/Arbitrator •Negotiator •Para legal
	Correction Services	Emergency and Fire Management Services	Security & Protective Services	Law Enforcement Services	Legal Services

Available Credentials: ***[Coming Soon]***

Sample Majors: *IUP - Computer Science, Criminology, Political Science, Psychology, Sociology, EMT Certification, Municipal Police Academy*
WCCC -

Business / Industry Endorsements: ***[Coming Soon]***

IHS Manufacturing Pathway (DRAFT)

Level	Grade	English (4.0 Credits)	Mathematics (3.0 Credits)	Science (3.0 Credits)	Social Studies (4.0 Credits)	Additional Requirements	Electives, <u>Dual Credit</u> , and <u>CTE Programs</u>	Curricular, <u>Extracurricular</u> , and <u>CTE Activities</u>
Indiana Area Senior High School <i>College in High School (CHS) classes are eligible to earn dual credit at the high school level with Westmoreland County Community College (WCCC) and Mt. Aloysius College.</i>	9	English 9 or Honors ELA 9	Pre-Algebra/ Algebra I or Higher (Keystone Exam)	Enviro Science or Higher	America & World II	Required Electives Career and Work Readiness Computer Applications	Advanced Computer Applications Aspects of Engineering I-II CHS CADD	Credit-Based Work Experience Senior Career Seminar Internship Lunch and Learn
	10	English 10 or Honors English 10 (Keystone Exam)	Algebra I/ Geometry or Higher	Biology or Higher (Keystone Exam)	America & World III or AP US History	HPE 9-11	Explorations in Computer Science Fabrication Engineering Fabrication Processes	Job Shadowing Job Site Visit Computer Science Club
	11	English 11 or CHS AP English Language	Geometry/ Algebra II or Higher	CHS Chemistry or AP Biology AP Chemistry AP Physics	American Government or CHS AP US Gov & Politics	PA State Assessments Keystone Algebra I Exam Keystone Biology Exam Keystone Literature Exam	Manufacturing Engineering Manufacturing Processes Robotics Engineering I-II Science of Engineering Computer Literacy	FBLA Club Tech Ed Club <u>ICTC - Cooperative Education (Program- based)</u> <u>ICTC - Pre- Apprenticeship (Program-based)</u>
	12	English 12 or Communicating in a STEM World & Senior English Elective or AP English Literature	CHS Pre- Calculus or CHS Statistics or Integrated III or Higher	Physics or ForSci/Geo/Astro or AP Biology AP Chemistry AP Physics	CHS Economics & Senior Social Studies Elective or AP Macroeconomics or Foundations of Citizenship	Other Activities Smart Futures Career Readiness Artifacts IHS Ready Graduation Project IASD Graduation Requirements (24	Fundamentals of Computer Science Problem Solving and Struct Prog ICTC - Machining Technology, 10-12 ICTC - Welding Technology, 10-12	<u>ICTC - Diversified Occupations for Seniors (Standalone program)</u> PSAT ASVAB ACT SAT
IUP Dual Enrollment Classes	11	*College Writing *English Composition	*College Algebra *Elementary Functions	*Energy and Our Environment *Exploring the Universe & Lab	*American Govt *Contemp Anthro *Cultural Anthro			

Dual Enrollment courses earn dual credit at the high school level.	12		<i>*Prob and Stats</i>	<i>*Intro to Forensic Biology</i> <i>*Physics I and Lab</i> <i>*The Dynamic Earth & Lab</i> <i>*The Physics of Light and Sound</i>	<i>*Explorations in US History</i> <i>*Gen Psychology</i> <i>*Intro Sociology</i> <i>*Principles of Macroeconomics</i>	Credits) Act 158 PDE Graduation Pathways Requirements	
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PATHWAYS TO COLLEGE & CAREER READINESS

Manufacturing

Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

Sample Career Specialties/Occupations	<ul style="list-style-type: none"> Assembler Automated Manufacturing Technician Bookbinder Calibration Technician Electrical Installer and Repairer Electromechanical Equipment Assembler Extruding and Drawing Machine Setter/Set-Up Operator Extrusion Machine Operator Foundry Worker Grinding, Lapping, and Buffing Machine Operator Hand Packers and Packager Hoist and Winch Operator Instrument Maker Large Printing Press Machine Setter and Set-Up Operator Machine Operator Manager, Supervisor Medical Appliance Maker Milling Machine Setter, Set-Up Operator Millwright Operator, Tender, Cutter/Brazer, Solderer, Machine Operator Painter Pattern & Model Maker Precision Layout Worker Precision Optical Goods Worker Production Associate Sheet Metal Worker Solderer and Brazier Tool and Die Maker Welder 	<ul style="list-style-type: none"> Design Engineer Electrical and Electronics Technician and Technologist Electronics Engineer Engineering and Related Technician and Technologist Engineering Technician Industrial Engineer Labor Relations Manager Manufacturing Engineer Manufacturing Technician Power Generating and Reactor Plant Operator Precision Inspector, Tester, and Grader Process Improvement Technician Production Manager Purchasing Agent Supervisor 	<ul style="list-style-type: none"> Biomedical Equipment Technician Boilermaker Communication System Installer/Repairer Computer Installer/Repairer Computer Maintenance Technician Electrical Equipment Installer/Repairer Facility Electrician Industrial Electronic Installer/Repairer Industrial Facilities Manager Industrial Machinery Mechanic Industrial Maintenance Electrician Industrial Maintenance Mechanic Industrial Maintenance Technician Instrument Calibration and Repairer Instrument Control Technician Job/Fixture Designer Laser Systems Technician Maintenance Repairer Major Appliance Repairer Meter Installer/Repairer Millwright Plumber, Pipefitter and Steamfitter Security System Installer/Repairer 	<ul style="list-style-type: none"> Calibration Technician Inspector Lab Technician Process Control Technician Quality Control Technician Quality Engineer SPC Coordinator 	<ul style="list-style-type: none"> Communications, Transportation and Utilities Manager Dispatcher Freight, Stock, and Material Mover Industrial Truck and Tractor Operator Logistical Engineer Logistician Material Associate Material Handler Material Mover Process Improvement Technician Quality Control Technician Traffic Manager Traffic, Shipping, and Receiving Clerk 	<ul style="list-style-type: none"> Environmental Engineer Environmental Specialist Health and Safety Representative Safety Coordinator Safety Engineer Safety Team Leader Safety Technician
Pathways	Production	Manufacturing Production Process Development	Maintenance, Installation & Repair	Quality Assurance	Logistics & Inventory Control	Health, Safety and Environmental Assurance

Available Credentials: [Coming Soon]

Sample Majors: IUP - Accounting, Environmental Engrn., Human Resource Mgmt., Management, Safety, Health & Environ. Applied Science
WCCC -

Business / Industry Endorsements: [Coming Soon]

IHS Marketing Pathway (DRAFT)

Level	Grade	English (4.0 Credits)	Mathematics (3.0 Credits)	Science (3.0 Credits)	Social Studies (4.0 Credits)	Additional Requirements	Electives, <i>Dual Credit</i> , and <u>CTE Programs</u>	Curricular, <i>Extracurricular</i> , and <u>CTE Activities</u>
Indiana Area Senior High School <i>College in High School (CHS) classes are eligible to earn dual credit at the high school level with Westmoreland County Community College (WCCC) and Mt. Aloysius College.</i>	9	English 9 or Honors ELA 9	Pre-Algebra/ Algebra I or Higher (Keystone Exam)	Enviro Science or Higher	America & World II	Required Electives Career and Work Readiness Computer Applications	Advanced Computer Applications Business Law Desktop Publishing Digital Media Production I-II-III	Credit-Based Work Experience Senior Career Seminar Internship Lunch and Learn
	10	English 10 or Honors English 10 (Keystone Exam)	Algebra I/ Geometry or Higher	Biology or Higher (Keystone Exam)	America & World III or AP US History	HPE 9-11	International Business Marketing	----- <i>Job Shadowing</i> <i>Job Site Visit</i> -----
	11	English 11 or CHS AP English Language	Geometry/ Algebra II or Higher	CHS Chemistry or AP Biology AP Chemistry AP Physics	American Government or CHS AP US Gov & Politics	PA State Assessments Keystone Algebra I Exam Keystone Biology Exam Keystone Literature Exam	CHS Public Speaking Web Design World Language ----- <i>Computer Literacy</i> <i>Introduction to Comm Media and Culture</i> <i>Public Speaking</i>	----- <i>FBLA Club</i> <i>Leadership Seminar</i> <i>Portfolio Club</i> ----- <u><i>ICTC - Cooperative Education (Program- based)</i></u> <u><i>ICTC - Pre- Apprenticeship (Program-based)</i></u> <u><i>ICTC - Diversified</i></u>
	12	English 12 or Communicating in a STEM World &	CHS Pre- Calculus or CHS Statistics or	Physics or ForSci/Geo/Astro or AP Biology	CHS Economics & CHS Psychology or AP	Other Activities		

		Senior English Elective or AP English Literature	Integrated III or Higher	AP Chemistry AP Physics	Macroeconomics or Foundations of Citizenship	Smart Futures Career Readiness Artifacts	----- <u>ICTC - Digital Communications 10-12</u>	<u>Occupations for Seniors (Standalone program)</u>
IUP Dual Enrollment Classes <i>Dual Enrollment courses earn dual credit at the high school level.</i>	11	*College Writing *English Composition	*College Algebra *Elementary Functions *Prob and Stats	*Energy and Our Environment *Exploring the Universe & Lab *Intro to Forensic Biology	*American Govt *Contemp Anthro *Cultural Anthro *Explorations in US History	IHS Ready Graduation Project IASD Graduation Requirements (24 Credits)	<u>ICTC - Graphics and Electronic Media 10-12</u>	PSAT ASVAB ACT SAT
	12			*Intro to Forensic Biology *Physics I and Lab *The Dynamic Earth & Lab *The Physics of Light and Sound	*Gen Psychology *Intro Sociology *Principles of Macroeconomics	Act 158 PDE Graduation Pathways Requirements		

Planning, managing, and performing marketing activities to reach organizational objectives.

Sample Career Specialties / Occupations	<ul style="list-style-type: none"> • Entrepreneurs • Owners • Small Business Owners • Presidents • Chief Executive Officers • Principals • Partners • Proprietors • Franchisees • Independent X's (e.g., distributor) • Customer Service Representatives • Administrative Support Representatives (e.g., human resources, clerical, finance, technical) 	<ul style="list-style-type: none"> • Inbound Call Managers • Channel Sales Managers • Regional Sales Managers • Client Relationship Managers • Business Development Managers • Territory Representatives / Managers • Key Account Managers • National Account Managers • Account Executives • Sales Engineers • Sales Executives • Technical Sales Specialists • Retail Sales Specialists (big ticket) • Outside Sales Representatives • Industrial Sales Representatives • Manufacturer's Representatives • Salespersons • Field Marketing Representatives • Brokers • Agents • Field Representatives • Solutions Advisors • Sales/Marketing Associates • Telemarketers/Inside Sales Representatives • Customer Service Representatives • Administrative Support Representatives (e.g., human resources, clerical, finance, technical) 	<ul style="list-style-type: none"> • Store Managers • Retail Marketing Coordinators • Merchandising Managers • Merchandise Buyers • Operations Managers • Visual Merchandise Managers • Sales Managers • Department Managers • Sales Associates • Customer Service Representatives • Clerks (e.g., stock, receiving, etc.) • Administrative Support Representatives (e.g., human resources, clerical, finance, technical) 	<ul style="list-style-type: none"> • Advertising Managers • Public Relations Managers • Public Information Directors • Sales Promotion Managers • Co-op Managers • Trade Show Managers • Circulation Managers • Promotions Managers • Art/Graphics Directors • Creative Directors • Account Executives • Account Supervisors • Sales Representatives • Marketing Associates • Media Buyers/Planners • Interactive Media Specialists • Analysts • Contract Administrators • Copywriters • Research Specialists • Research Assistants • Customer Service Representatives • Administrative Support Representatives (e.g., human resources, clerical, finance, technical) 	<ul style="list-style-type: none"> • Database Managers • Research Specialists / Managers • Brand Managers • Marketing Services Managers • Customer Satisfaction Managers • (Research) Project Managers • CRM Managers • Forecasting Managers • Strategic Planners, Marketing • Product Planners • Planning Analysts • Directors of Market Development • Database Analysts • Analysts • Research Associates • Frequency Marketing Specialists • Knowledge Management Specialists • Interviewers • Customer Service Representatives • Administrative Support Representatives (e.g., human resources, clerical, finance, technical)
	Marketing Management	Professional Sales	Merchandising	Marketing Communications	Marketing Research
Pathways					

Available Credentials: [Coming Soon]

Sample Majors: IUP - Communications Media, Economics, Finance, Human Resource Mgmt., Management, MIS, Marketing
WCCC -

Business / Industry Endorsements: [Coming Soon]

IHS Science, Tech, Engineering & Math Pathway (DRAFT)

Level	Grade	English (4.0 Credits)	Mathematics (3.0 Credits)	Science (3.0 Credits)	Social Studies (4.0 Credits)	Additional Requirements	Electives, <u>Dual Credit</u> , and <u>CTE Programs</u>	Curricular, Extracurricular, and <u>CTE Activities</u>
Indiana Area Senior High School <i>College in High School (CHS) classes are eligible to earn dual credit at the high school level with Westmoreland County Community College (WCCC) and Mt. Aloysius College.</i>	9	English 9 or Honors ELA 9	Pre-Algebra/ Algebra I or Higher (Keystone Exam)	Enviro Science or Higher	America & World II	Required Electives Career and Work Readiness Computer Applications HPE 9-11	Anatomy & Phys. I-II AP Computer Science Architectural Design Architectural Drafting Aspects of Engineering I-II CHS CADD Computer Program & Coding I-II Digital Media Prod I-III Engineering Drawing Fab. Process./Eng. Manf. Process./Eng. Science of Engineering	Credit-Based Work Experience Senior Career Seminar Internship Lunch and Learn ----- <i>Job Shadowing</i> ----- <i>Job Site Visit</i> ----- <i>Computer Science Club</i> ----- <i>Eco Club</i> ----- <i>Science Club</i> ----- <i>Tech Ed Club</i> -----
	10	English 10 or Honors English 10 (Keystone Exam)	Algebra I/ Geometry or Higher	Biology or Higher (Keystone Exam)	America & World III or AP US History	PA State Assessments Keystone Algebra I Exam Keystone Biology Exam Keystone Literature Exam	Contemp Social Probs Environment and Society Intro to Comm Media and Culture Intro to Forensic Biology Nutritional Wellness Problem Solving and Struct Prog	----- <i>ICTC - Cooperative Education (Program- based)</i> ----- <i>ICTC - Pre- Apprenticeship (Program-based)</i> ----- <i>ICTC - Diversified Occupations for Seniors (Standalone program)</i> -----
	11	English 11 or CHS AP English Language	Geometry/ Algebra II or Higher	CHS Chemistry or AP Biology AP Chemistry AP Physics	American Government or CHS AP US Gov & Politics	Other Activities Smart Futures Career Readiness Artifacts IHS Ready Graduation Project IASD Graduation Requirements (24	----- ICTC Information Technology Services, 10-12 ICTC Machining Technology, 10-12	----- PSAT ASVAB ACT SAT
	12	English 12 or Communicating in a STEM World & Senior English Elective or AP English Literature	CHS Pre- Calculus or CHS Statistics or Integrated III or Higher	Physics or ForSci/Geo/Astro or AP Biology AP Chemistry AP Physics	CHS Economics & Senior Social Studies Elective or AP Macroeconomics or Foundations of Citizenship			
IUP Dual Enrollment Classes	11	*College Writing *English Composition	*College Algebra *Elementary Functions	*Energy and Our Environment *Exploring the Universe & Lab	*American Govt *Contemp Anthro *Cultural Anthro			

Dual Enrollment courses earn dual credit at the high school level.	12		*Prob and Stats	*Intro to Forensic Biology *Physics I and Lab *The Dynamic Earth & Lab *The Physics of Light and Sound	*Explorations in US History *Gen Psychology *Intro Sociology *Principles of Macroeconomics	Credits) Act 158 PDE Graduation Pathways Requirements	



Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

Sample Career Specialties / Occupations	Aerospace Engineer* Aeronautical Engineer* Agricultural Engineer* Agricultural Technician* Application Engineer* Architectural Engineer* Automotive Engineer* Biomedical Engineer* Biotechnology Engineer* Chemical Engineer* Civil Engineer* Communications Engineer* Computer Engineer* Computer Hardware Engineer* Computer Programmer* Computer Science Technician* Computer Software Engineer* Construction Engineer* Consultant* Development Engineer* Drafter* Electrical Engineer* Electrician* Electronics Technician* Energy Transmission Engineer* Environmental Engineer* Facilities Technician* Fire Protection Engineer* Geothermal Engineer* Hazardous Waste Engineer* Hazardous Waste Technician* Human Factors Engineer* Industrial Engineer* Industrial Engineering Technician* Licensing Engineer* Manufacturing Engineer* Manufacturing Technician* Manufacturing Processes Engineer* Marine Engineer* Materials Engineer* Materials Lab & Supply Technician* Mechanical Engineer* Metallurgic Engineer* Mining Engineer* Naval Engineer* Network Technician* Nuclear Engineer* Ocean Engineer* Operations Research Engineer* Packaging Engineer* Packaging Technician* Petroleum Engineer* Pharmaceutical Engineer* Plastics Engineer* Power Systems Engineer* Product Design Engineer* Project Engineer* Project manager* Prototype Engineer* Quality Engineer* Quality Technician* Radio/TV Broadcast Technician* Radiology Engineer* Researcher* Safety Engineer* Software Engineer* Sound Technician* Structural Engineer* Survey Technician* Systems Design Engineer* Technical Sales Manager* Technical Writer* Telecommunications Engineer* Textile Engineer* Transportation Engineer* Nuclear Engineer and Procurement Engineer	Analytical Chemist* Anthropologist* Applied mathematician* Archeologist* Astronomer* Astrophysicist* Atmospheric scientist* Biologist* Botanist* CAD operator* Cartographer* Chemist* Communications technologist* Conservation scientist* Cosmologist* Cryptographer* Crystallographer* Demographer* Dye chemist* Ecologist* Economist* Electronmicroscopist* Environmental scientist* Expert systems scientist* Geneticist* Geologist* Geophysicist* Geoscientist* Herpetologist* Hydrologist* Ichthyologist* Inorganic chemist* Laboratory Technician* Mammalogist* Marine scientist* Materials analyst* Materials scientist* Mathematician* Mathematics* Metallurgist* Meteorologist* Microbial Physiologist* Mycologist* Nanobiologist* Nuclear chemists* Nuclear technician* Numerical analyst* Nutritionist* Oceanographer* Organic chemist* Ornithologist* Paleontologist* Physicist* Polymer scientist* Programmer* Protein scientist* Protozoologist* Quality-control scientist* Radio chemist* Research chemist* Research Technician* Science Teacher* Lab Technician* Scientific visualization / graphics expert* Spectroscopist* Statistician* Technical writer* Technologist* Toxicologist* Zoologist*
Pathways	Engineering and Technology	Science and Math

Available Credentials: [Coming Soon]

Sample Majors: IUP - Biology, Chemistry, Computer Science, Economics, Information Tech., Mathematics, Nutrition, Physics, Pre-Engineering

WCCC -

Business / Industry Endorsements: [Coming Soon]

IHS Transportation, Distribution & Logistics Pathway (DRAFT)

Level	Grade	English (4.0 Credits)	Mathematics (3.0 Credits)	Science (3.0 Credits)	Social Studies (4.0 Credits)	Additional Requirements	Electives, <u>Dual Credit</u> , and <u>CTE Programs</u>	Curricular, <u>Extracurricular</u> , and <u>CTE Activities</u>
Indiana Area Senior High School <i>College in High School (CHS) classes are eligible to earn dual credit at the high school level with Westmoreland County Community College (WCCC) and Mt. Aloysius College.</i>	9	English 9 or Honors ELA 9	Pre-Algebra/ Algebra I or Higher (Keystone Exam)	Enviro Science or Higher	America & World II	Required Electives Career and Work Readiness Computer Applications HPE 9-11 ----- PA State Assessments Keystone Algebra I Exam Keystone Biology Exam Keystone Literature Exam	Accounting I CHS Accounting II Architectural Design Architectural Drafting Aspects Engineer. I-II CHS CADD Engineering Drawing Human Geography International Business Marketing Physical & Regional Geography CHS Public Speaking Science of Engineering World Language ----- <i>Accounting Principles I</i> <i>Contemporary Social Problems</i> <i>Environment and Society</i> <i>Foundations of</i>	Credit-Based Work Experience Senior Career Seminar Internship Lunch and Learn ----- <i>Job Shadowing</i> <i>Job Site Visit</i> ----- <i>Aviation Club</i> <i>French / German / Spanish Club</i> <i>Tech Ed Club</i> ----- <i>ICTC - Cooperative Education (Program- based)</i> <i>ICTC - Pre- Apprenticeship (Program-based)</i>
	10	English 10 or Honors English 10 (Keystone Exam)	Algebra I/ Geometry or Higher	Biology or Higher (Keystone Exam)	America & World III or AP US History		CHS Accounting II Architectural Design Architectural Drafting Aspects Engineer. I-II CHS CADD Engineering Drawing Human Geography International Business Marketing Physical & Regional Geography CHS Public Speaking Science of Engineering World Language ----- <i>Accounting Principles I</i> <i>Contemporary Social Problems</i> <i>Environment and Society</i> <i>Foundations of</i>	Credit-Based Work Experience Senior Career Seminar Internship Lunch and Learn ----- <i>Job Shadowing</i> <i>Job Site Visit</i> ----- <i>Aviation Club</i> <i>French / German / Spanish Club</i> <i>Tech Ed Club</i> ----- <i>ICTC - Cooperative Education (Program- based)</i> <i>ICTC - Pre- Apprenticeship (Program-based)</i>
	11	English 11 or CHS AP English Language	Geometry/ Algebra II or Higher	CHS Chemistry or AP Biology AP Chemistry AP Physics	American Government or CHS AP US Gov & Politics		CHS Accounting II Architectural Design Architectural Drafting Aspects Engineer. I-II CHS CADD Engineering Drawing Human Geography International Business Marketing Physical & Regional Geography CHS Public Speaking Science of Engineering World Language ----- <i>Accounting Principles I</i> <i>Contemporary Social Problems</i> <i>Environment and Society</i> <i>Foundations of</i>	Credit-Based Work Experience Senior Career Seminar Internship Lunch and Learn ----- <i>Job Shadowing</i> <i>Job Site Visit</i> ----- <i>Aviation Club</i> <i>French / German / Spanish Club</i> <i>Tech Ed Club</i> ----- <i>ICTC - Cooperative Education (Program- based)</i> <i>ICTC - Pre- Apprenticeship (Program-based)</i>
	12	English 12 or Communicating in a STEM World & Senior English	CHS Pre- Calculus or CHS Statistics or Integrated III	Physics or ForSci/Geo/Astro or AP Biology AP Chemistry	CHS Economics & CHS Sociology or AP Macroeconomics		CHS Accounting II Architectural Design Architectural Drafting Aspects Engineer. I-II CHS CADD Engineering Drawing Human Geography International Business Marketing Physical & Regional Geography CHS Public Speaking Science of Engineering World Language ----- <i>Accounting Principles I</i> <i>Contemporary Social Problems</i> <i>Environment and Society</i> <i>Foundations of</i>	Credit-Based Work Experience Senior Career Seminar Internship Lunch and Learn ----- <i>Job Shadowing</i> <i>Job Site Visit</i> ----- <i>Aviation Club</i> <i>French / German / Spanish Club</i> <i>Tech Ed Club</i> ----- <i>ICTC - Cooperative Education (Program- based)</i> <i>ICTC - Pre- Apprenticeship (Program-based)</i>

		Elective or AP English Literature	or Higher	AP Physics	or Foundations of Citizenship		<i>Accounting</i> <i>Global Cities: Planning and Development</i>	<i><u>ICTC - Diversified Occupations for Seniors</u></i> <i>(Standalone program)</i>
						Other Activities	<u>ICTC - Automotive Technology, 10-12</u> <u>ICTC - Collision Repair Technology, 10-12</u>	
IUP Dual Enrollment Classes <i>Dual Enrollment courses earn dual credit at the high school level.</i>	11	<i>*College Writing</i> <i>*English Composition</i>	<i>* College Algebra</i> <i>*Elementary Functions</i> <i>* Prob and Stats</i>	<i>*Energy and Our Environment</i> <i>*Exploring the Universe & Lab</i> <i>*Intro to Forensic Biology</i> <i>*Physics I and Lab</i> <i>*The Dynamic Earth & Lab</i> <i>*The Physics of Light and Sound</i>	<i>* American Govt</i> <i>* Contemp Anthro</i> <i>*Cultural Anthro</i> <i>*Explorations in US History</i> <i>*Gen Psychology</i> <i>*Intro Sociology</i> <i>*Principles of Macroeconomics</i>	Smart Futures Career Readiness Artifacts IHS Ready Graduation Project IASD Graduation Requirements (24 Credits) Act 158 PDE Graduation Pathways Requirements		
	12							PSAT ASVAB ACT SAT

Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Sample of Career Specialties / Occupations	Air/Space Transportation: Transportation Managers (Air) * Commercial Pilots * Flight Engineers * Flight Attendants * Dispatchers (Air) * Traffic Managers * Air traffic Controllers * Aircraft Cargo Handling Supervisors * Airfield Operations Specialists Rail Transportation: Transportation Managers (Rail) * Dispatchers (Rail) * Traffic Managers * Locomotive Engineers * Locomotive Firers * Railyard Conductors and Yardmasters * Railroad Brake, Signal and Switch Operators * Railyard Engineers, Dinkey Operators, and Hostlers Water Transportation: Transportation Managers (Water) * Dispatchers (Water) * Traffic Managers * Captains * Mates * Pilots of Water Vessels * Sailors and Marine Oilers * Able Seamen * Ordinary Seamen * Ship and Boat Captains * Ship Engineers * Bridge and Lock Tenders Road Transportation Transportation managers (Road) * Dispatchers (Truck/Bus/Taxi) * Traffic Managers * Truck Drivers (Tractor-Trailer) * Truck Drivers (Light or Delivery Services) * Bus Drivers (Transit and Intercity) * School Bus Drivers * Taxi Drivers and Chauffeurs Transit Systems: Transportation Managers (Mass Transit) * Dispatchers (Bus) * Traffic Managers * Dispatchers (Rail) * Traffic Managers * Bus Drivers (Transit and Intercity) * Subway and Streetcar Operators	Logisticians * Logistics Managers * Logistics Engineers * Logistics Analysts * Logistics Consultants * International Logistics Specialists	Warehouse Managers * Storage and Distribution Managers * Industrial and Packaging Engineers * Traffic, Shipping and Receiving Clerks * Production, Planning, Expediting Clerks * First-line Supervisors/Managers of Helpers * Laborers, and Material Movers (Hand) * First-line Supervisors /Managers of Transportation and Material (Moving Machine and Vehicle Operators) * Laborers and Freight, Stock and Material Movers (Hand) * Car, Truck and Ship Loaders * Packers and Packers-hand	Facility: Facility Maintenance Managers and Engineers * Industrial Equipment Mechanics * Industrial Electricians, * Electrical/Electronic Technicians Mobile Equipment: General—Mobile Equipment Maintenance Managers * Electrical and Electronic Installers and Repairers (Transportation Equipment) * Mobile Heavy Equipment Mechanics Air/Space— Aerospace Engineering and Operations Technicians * Aircraft Mechanics and Service Technicians * Airframe Mechanics * Power plant Mechanics * Aircraft Engine Specialists * Avionics Technicians Water— Ship Mechanics and Repairers * Motorboat Mechanics * Automotive/Truck Mechanics and Body Repairers Rail— Rail Car Repairers * Signal and Track Switch Repairers * Rail Locomotive Mechanics and Repairers Road— Electronic Equipment Installers and Repairers (Motor Vehicle) * Automotive Body and Related Repairers * Automotive Service Technicians and Mechanics * Automotive Master Mechanics * Automotive Specialty Technicians * Bus and Truck Mechanics and Diesel Engine Specialists * Motorcycle Mechanics * Bicycle Repairers	General—Intermodal— Urban and Regional Planners * Civil Engineers * Engineering Technicians * Surveying and Mapping Technicians * Government Service Executives * Environmental Compliance Inspectors Air/Space— Air Traffic Controllers * Aviation Inspectors Road— Traffic Engineers * Traffic Technicians * Motor Vehicle Inspectors * Freight Inspectors Rail— Railroad Inspectors Water— Marine Cargo Inspectors * Vessel Traffic Control Specialists Transit— Public Transportation Inspectors Other— Regulators * Inspectors and other federal/state/local transportation agency jobs	Health and Safety Managers * Industrial Health and Safety Engineers * Environmental Scientists and Specialists * Environmental Protection Technicians * Environmental Managers and Engineers * Environmental Compliance Inspectors * Safety Analysts	Marketing Managers, * Sales Managers * Sales Representatives of Transportation /Logistics Services * Reservation, Travel and Transportation Agents * Cargo and Freight Agents * Customer Service Managers * Cashiers, Counter and Rental clerks
	Transportation Operations	Logistics Planning and Management Services	Warehousing and Distribution Center Operations	Facility and Mobile Equipment Maintenance	Transportation Systems/ Infrastructure Planning, Management, and Regulation	Health, Safety and Environmental Management	Sales and Service

Available Credentials: [Coming Soon]

Sample Majors: IUP - Environmental Engrn., Geography & GIS, Geology, Marketing, Management, Regional Planning, Safety & Health
WCCC -

Business / Industry Endorsements: [Coming Soon]

OTHER SCHEDULING INFORMATION

ACADEMIC PATHWAYS:

All students must schedule a minimum of thirty-five periods per week each semester unless administrative approval is received to schedule fewer periods. The periods that the student has remaining after he or she has developed a schedule will automatically become periods devoted to supervised personal study time, learning support, and other academic enrichment/assistance activities. We encourage students to be involved in the elective programs, but discretion should be used in course selections based on the amount of time needed for study. Optimized or full-day class schedules are possible, but such schedules are sometimes difficult to develop due to course availability and other types of scheduling conflicts.

ELECTIVE COURSES:

Students can choose from the provided list of electives in order to complete their program of studies. The courses are listed as full year, first semester or second semester courses. Credit information for each course is indicated also in each course description. All electives are five periods per week unless indicated otherwise. Periods per week, semester offered (if applicable), and course number information are listed on the student's program sheet as well as in this handbook. Students are encouraged to discuss elective choices with parents, teachers, and counselors.

SPECIAL PROGRAMS:

In addition to required and elective courses, special programs are offered to students, including areas of Special Education and Adaptive Physical Education. Parents of students involved in these programs should consult with school personnel in planning appropriate academic work.

COLLEGIATE ATHLETIC ELIGIBILITY

The National Collegiate Athletic Association (NCAA) and the National Association of Intercollegiate Athletics (NAIA) works in cooperation with member colleges and universities to regulate athletic eligibility for college students. **Any prospective student athlete who wishes to play intercollegiate athletics at NCAA Division I or II levels must register with the NCAA Eligibility Center and meet NCAA eligibility requirements.** Required information includes minimum course credits, Grade Point Average, and SAT or ACT score requirements. Information about these standards is available in the Guidance Office, Athletic Office and on-line at www.ncaastudent.org. Registration for the NCAA Eligibility Center should be completed on-line. **It is the responsibility of the student to register for eligibility as well as authorize the School Counseling Office to release a copy of his/her transcript to the NCAA. Official SAT/ACT test scores must be sent from the testing agency directly to the NCAA Eligibility Center using code 9999.**

GRADE VALUES:

For the Graduating Classes of 2023 and 2024, Quality points are assigned the following values: A=4, B=3, C=2, D=1. However, a weighted grade system is developed to compensate for the increased rigor and workload of Advanced Placement and honors level courses. Quality point values for honors level courses are: A=4.25, B=3.25, C=2.25, D=1.25. AP courses are assigned the following quality point values: A=5, B=4, C=3, D=2.

For the Graduating Classes of 2025 and thereafter, Quality points are assigned the following values: A=4, B=3, C=2, D=1. However, a weighted grade system is developed to compensate for the increased rigor and workload of Advanced Placement, Dual Enrollment, College in High School, Honors, and ICTC programming. Quality point values for honors level courses, and non-AP CHS, and ICTC are: A=4.5, B=3.5, C=2.5, and D=1.5. AP and Dual Enrollment courses are assigned the following quality point values: A=5, B=4, C=3, D=2.

Please note: these increased quality points do not appear on the report card; the additional value will be factored into the cumulative grade point average. The following courses carry a weighted grade value:

<u>Advanced Placement Course</u>	<u>Grade(s)</u>	<u>Advanced Placement Course</u>	<u>Grade(s)</u>
AP English Lit. and Composition	12	AP Computer Science	10-12
AP English Lang. and Composition	11	AP Chemistry	11-12
AP U.S. History	10-12	AP Biology	11-12
AP Statistics	11-12	AP Physics I	11-12
AP U.S. Government and Politics	12	AP Physics II	11-12
AP Macroeconomics	12	AP Spanish	11-12
AP Calculus I	11-12	(Non-AP) Multivariable-Calculus III	12
AP Calculus II	11-12		

SCHEDULE CHANGES:

All requests for schedule changes must be completed by June 8, 2023. Questions regarding scheduling should be directed to the IHS School Counseling Office at (724) 463-3531 or by email to school counselors. Given that the building schedule with determined numbers of course sections and class sizes is developed prior to the end of the school year, any schedule change requests received after **June 8, 2023**, are to be considered only if extenuating circumstances and capacity exist.

ACADEMIC SUPPORT

- 911** **ACADEMIC SUPPORT ENGLISH** (9th – 10th grades) full year 1.00 credit
This class is designed to help students develop all skills necessary for effective communication in today's society. The curriculum will be based on activities involving reading of novels and short stories, analysis of literature, written expression, oral expression, listening comprehension, and study skill strategies. Application of these skills will be transferred to "real life" activities to encourage the growth of all students into independent, productive adults.
***Special approval required.**
- 910** **ACADEMIC SUPPORT ENGLISH** (11th – 12th grades) full year 1.00 credit
This class is designed to help students develop all skills necessary for effective communication in today's society. The curriculum will be based on activities involving reading of novels and short stories, analysis of literature, written expression, oral expression, listening comprehension, and study skill strategies. Application of these skills will be transferred to "real life" activities to encourage the growth of all students into independent, productive adults.
***Special approval required.**
- 912** **ACADEMIC SUPPORT MATH** (9th – 12th grades) full year 1.00 credit
This course is designed for students who have a basic knowledge of math skills but need additional support applying these skills to everyday living situations. Students will learn math skills necessary for the world of work and independent living.
***Special approval required.**
- 913** **ACADEMIC SUPPORT READING** (9th – 12th grades) 1st semester .50 credit
914 **ACADEMIC SUPPORT READING** (9th – 12th grades) 2nd semester .50 credit
This course is designed to improve and sharpen special needs students' reading skills through individualized instruction. Course content focuses on comprehension strategies, improving reading fluency, and test preparation techniques. Students are exposed to a variety of reading materials in which they practice and apply learned reading strategies including: sequencing events, recalling details, determining cause and effect, finding the main idea, drawing conclusions, making inferences, predicting, and summarizing. Test-taking skills are also emphasized as students prepare for standardized reading assessments. ***Teacher or counselor recommendation is required.**
- 918** **PATHWAYS TO INDEPENDENCE** (11th and 12th grades) full year 1.00 credit
Students will develop skills in areas related to post-secondary employment and independent living. Topics covered include career research, job skills, money management, housing, transportation, taxes, insurance, family life, household maintenance, developing and following a budget, self-advocacy and development of recreation and leisure skills within the community. Students will have the opportunity to apply knowledge gained through classroom instruction to real-life experience activities including job shadowing, use of a learning lab, obtaining I-D cards, and simulation projects.
***Special approval required.**
- 939** **CAREER TRANSITIONS** (11th – 12th grades) full year 1.00 credit
While participating in the Career Transition course the students will develop skills in the areas related to post-secondary employment and job retention goals. Students will be placed and monitored in a variety of job sites in which they will have the opportunity to develop and apply job skills. While at the job sites, students will be evaluated using individual task analysis which will be developed to direct skill acquisition and will focus on the following areas: identification and explanation of vocational interests based on individual strengths and aptitudes, job acquisition skills, initiative, problem solving, decision skills, reliability, attitude, ability to work with others, compliance of rules, practicing appropriate safety habits, thoroughness of work communication, attendance, and appropriate work appearance. The students who participate in this course will earn grades through work-site evaluations and the completion of individual employability portfolios.

LIFE SKILLS PROGRAMS

BUSINESS, COMPUTER, INFORMATION, TECHNOLOGY (BCIT)

All courses within the Business Department are elective course offerings.

410 **COMPUTER APPLICATIONS** (9th – 12th grades) 1st or 2nd semester .50 credit

87410 OL COMPUTER APPLICATIONS

This course offers topics in Microsoft Office. Students will become more productive and efficient using Word, Excel, PowerPoint, and Access. Students are taught the proper procedures to create documents, worksheets, databases, and presentations suitable for coursework, professional purposes, and personal use. *This course is required and fulfills the .5 credit needed for the Computer Technology Graduation Requirement. In order to be successful in COSC 101, students should have completed Computer Applications with a minimum of a B average.*

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Computer Literacy	COSC 101		Semester	0.5	Students should have completed Computer Applications with a minimum of a B average in order to be prepared for COSC 101 (cross-listed as BTED/IFMG 101).

412 **ADVANCED COMPUTER APPLICATIONS** (9th – 12th grades) 1st or 2nd semester .50 credit

87412 OL ADVANCED COMPUTER APPLICATIONS

This one semester course is designed to further students' knowledge of Microsoft Office including Word (section breaks, tables, graphics, mail merge, multicolumn documents), Excel (formulas and functions, data tables, amortization schedules, multiple worksheets, charts and graphics), PowerPoint (custom backgrounds, transitions, hyperlinks, action buttons), and Access (tables, reports and forms). Students are required to have a minimum of a 2.0 GPA in the computer application course to enroll in advanced computer applications. *This course counts toward the elective requirements for graduation.*

414 **ACCOUNTING I** (10th – 12th grades) full year 1.00 credit

Students interested in the business career fields of accounting, business management, business education, human resources management, marketing, and finance, as well as the career fields of safety science, pre-law, fashion merchandising and hospitality management are often required to take accounting courses in college. This course teaches the fundamentals of the accounting cycle for a sole proprietorship and a partnership. Journalizing transactions, posting to general and subsidiary ledgers and financial statement preparation are covered. In order to be successful in ACCT 200, students should have completed Accounting I with a minimum of a B average. **In order to be successful in ACCT 200, students should have completed Accounting I with a minimum of a B average.**

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Foundations of Accounting	ACCT 200		Semester	1.0	Students should have completed Accounting I with a minimum of a B average in order to be prepared for ACCT 200 at IUP.

415 **CHS ACCOUNTING II** (11th – 12th grades) full year 1.00 credit

This course builds upon the concepts in Accounting I to include departmentalized accounting procedures and payroll, accounting control systems, and corporation accounting. QuickBooks Pro will be utilized to teach students computerized accounting procedures. This course is for students who want to major in accounting or a business field in college or who want a business position upon graduation from high school. *A grade point average of 2.0 or higher in Accounting I, course 414, is recommended to enroll in this course. **In order to be successful in ACCT 201, a course that moves very quickly, it is strongly recommended that students complete Accounting I and Accounting II with a minimum of a B average before attempting this course. Students taking this course will be eligible to earn WCCC credit through participation in the IASD College in High School Program.**

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
WCCC	CHS	Accounting I	ACC 155		Year	1.0

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Accounting Principles I	ACCT 201		Semester	1.0	Students should have completed Accounting I and Accounting II with a minimum of a B average in both in order to be prepared for ACCT 201 at IUP.

417 **INTERNATIONAL BUSINESS** (9th – 12th grades) 1st or 2nd semester .50 credit

This course is designed to provide students with specific information in the following areas of business and the global business environment: cultural influences, business structures, entrepreneurship, marketing, advertising, management, production, business planning and human resources. Individual and group projects, independent research, speakers from the community, and performance assessments are used to involve the students in the learning of business-related concepts

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Business Success Seminar	BUS 101		Semester	0.5	In order to be successful in BUS 101, students should have completed a minimum of two of the following courses: Accounting I, Accounting II, Personal Finance I, Personal Finance II, International Business, Marketing.

419 **MARKETING** (9th – 12th grades) 1st or 2nd semester .50 credit

This course is designed to provide students with specific information regarding marketing. Students will examine the role of marketing in our society and within business. Students will study those activities necessary to the design, pricing, promotion, and distribution of goods and services for use by businesses and consumers. In addition to studying the four P's of marketing (product, price, promotion, and place), students will also develop a marketing plan and explore careers in marketing. This course will focus on marketing in the Sports and Entertainment industries. Student projects (individual and team), case studies, and real-life simulations will be used to assess students.

New PDE graduation requirements guidelines permit students to substitute one of three required mathematics credits by taking both semester-based Personal Finance I and Personal Finance II courses. Personal Finance I and Personal Finance II courses that are taken to meet mathematics graduation credit requirements can be counted only toward the last year of mathematics learning. Personal Finance I and Personal Finance II courses that are taken to substitute science graduation requirements may not be counted toward electives graduation requirements. Additionally, students should consider carefully any need for continued mathematics learning through the junior and senior years to optimize post-secondary education planning and preparation.

431 **PERSONAL FINANCE I** (10th – 12th grades) 1st or 2nd semester .50 credit

Students will study personal finance topics including the following items:

Pay, Benefits & Work	Income Tax & Filing a Return	Budgets & Records
Checking and Banking	Saving for the Future	Investing for the Future
Investing in Stocks	Stock Market Simulation	Investing in Bonds
Investing in Mutual Funds,	Retirement and Estate Planning	Family Financial Decisions

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Financial Wellness	FIN 143		Semester	0.5	In order to be successful in FIN 143, students should have completed the following courses: Personal Finance I, Personal Finance II

- 432** **PERSONAL FINANCE II** (10th – 12th grades) 1st or 2nd semester .50 credit
Students will study personal finance topics including the following items:

Advanced Methods in Investing in Markets		The Stock Market Game
Credit in America	Credit Records and Laws	Costs of Credit
Renting a Residence	Buying a Home	Buying and Owning a Vehicle
Risk Management	Property & Liability Insurance	Health & Life Insurance
Role of Consumers	Consumer Protection	Dispute Resolution

*Students taking this course must have successfully completed Course 431 (Personal Finance I)

- 434** **BUSINESS LAW** (9th – 12th grades) 1st or 2nd semester .50 credit
This course informs students of the legal system and how it relates to business and personal use. In addition to intentional torts (i.e., assault and battery, trespass, nuisance, defamation, invasion of privacy), negligence and strict liability, students will cover topics relating to the dual court system, trial procedures, and contract formation. Finally, students will learn the legal implications of forming a sole proprietorship, partnership or corporation. Presentations by local business people and attorneys will be incorporated into the course.
- 436** **PERSONAL AND CONSUMER LAW** (9th – 12th grades) 1st or 2nd semester .50 credit
This course is designed to present general knowledge of personal legal issues. In addition to consumer protection laws, topics covered in this class include legal aspects of borrowing money, buying on credit, buying a car or house, renting an apartment, purchasing insurance and getting the most out of warranty transactions. Upon completion of this course, students will be aware of their legal rights as they relate to consumer affairs. Presentations given by local car dealers, insurance agents, real estate agents, and lawyers are incorporated into the curriculum.
- 438** **WEB DESIGN** (9th – 12th grades) 1st or 2nd semester .50 credit
This one-semester course is designed for the student who has completed Advanced Computer Applications, course 412. Students will complete WEB activities, create HOME pages using authorware, develop multimedia projects, use the Internet to produce teacher directed research assignments and communicate with students, teachers and web site hosts via electronic media.
- 442** **DESKTOP PUBLISHING** (10th – 12th grades) 1st or 2nd semester .50 credit
Students will learn to create and edit documents with desktop publishing software including Microsoft Publisher and Adobe InDesign. Types of documents created in desktop publishing include banners, brochures, business cards, calendars, cards/invitations, flyers, labels, newsletters and signs.
- 528** **CAREER AND WORK READINESS** (11th-12th grades) 1st or 2nd semester .50 credit
This is a course designed to give learners an overview and understanding of the topics of study associated with Family and Consumer Science, BCIT, and Career Education and Work Standards. Students will develop skills in areas related to post-secondary employment and independent living. Topics covered include career research, job skills, money management, housing, transportation, taxes, insurance, developing and following a budget, and self-advocacy as a consumer. This course is designed to help students develop the skills necessary to make daily decisions, and to successfully manage their lives after completion of high school. This course will satisfy the Family and Consumer Science Graduation Requirement Credit.

Dual Elective Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Financial Wellness	ECON 143		Semester	0.5	

COMMUNICATIONS/DIGITAL MEDIA PRODUCTION

All courses within the Communications Department are elective course offerings open to all students. However, Digital Media Production II and Digital Media Production III courses are sequential in nature and require successful completion of previous level courses.

- 636** **DIGITAL MEDIA PRODUCTION I** (9th - 12th grades) full year 1.00 credit
- During the first semester of this course**, students will learn about **Digital Photography** and its proper composition, techniques, and terminology utilized along with its practical applications and uses. Students will shoot photographs utilizing digital photo cameras, archive and manage the photographs on a computer via a digital storage medium, analyze the photographs taken, and perform basic "digital darkroom" photographic manipulation/correction on a computer using software. **During the second semester of this course**, students will learn **Digital Video Production** and its proper composition, techniques, and terminology utilized in Digital Videography and its practical applications and uses. Students will shoot video footage utilizing digital video cameras, capture the video footage into a computer, edit the video and audio on the computer using video editing software and create video productions finalized as a DVD or digital file.

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Beginning Photography*	COMM 271	COMM 101 or JRNL 105	Semester	1.0	In order to be successful in COMM 271, students should have completed the following courses: Digital Media Production I

- 637** **DIGITAL MEDIA PRODUCTION II** (10th – 12th grades) full year 1.00 credit
- During the first semester of the course**, DMP II students will further enhance their photographic composition skills by continuing to take photographs needed for the IHS yearbook and other school publications. In addition, DMP II students will have the opportunity to **expand their photographic composition skills** by **completing various "independent" photo assignments** that allow for **more creativity** and **individuality** beyond the photos taken for school use. Lastly, DMP II students will **build upon the photo manipulation skills** acquired in DMP I **via Photoshop** in order to re-create digital images from scanned images, from digital cameras, and the Internet. Students will utilize the layers of Photoshop to **create professional images** and **alter existing photographs** for use in **graphic designs, advertising, and internet content**. **During the second semester of the course**, DMP II students will further **enhance their video production skills** from DMP I by **creating a YouTube Channel** and **creating THREE different videos/posts** that will follow current popular styles of videos on YouTube (ie. Vlogging, Product Reviews, Gaming, Tutorials, Advice, or News)
- 638** **DIGITAL MEDIA PRODUCTION III** (11th and 12th grades) full year 1.00 credit
- During the first semester of the course**, DMP III students will **further enhance their photographic composition skills** by continuing to take **photographs needed** for the **IHS yearbook** and other **school publications**. In addition, DMP III students will have the **opportunity to expand their photographic composition skills** by **completing various "independent" photo assignments** that allow for **more creativity** and **individuality** beyond the photos taken for school use. Lastly, DMP III students will **build upon the photo manipulation skills** acquired via **Photoshop** in DMP I & DMP II in order to utilize the layers of Photoshop to **create professional images** and **alter existing photographs** for **use in graphic designs, advertising, and internet content**. **During the second semester of the course**, students will learn about **webcasting** and the **proper techniques, skills, and terminology** to allow the student to **operate** and **direct** the **functional components** of a **webcast studio** and **video production facility**. Students will **staff the production facility** as **on-air talent, production crew, and directors** to produce a **"webcast"**. In addition, students will **continue** their **exploration of digital video production** in order to **create PSA's (Public Service Announcements), Commercials** and **Video Productions** for **webcast** and **website hosting**.

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Intro to Comm Media and Culture	COMM 101		Semester	1.0	In order to be successful in COMM101, students should have completed the following courses: Digital Media Production I and Digital Media Production II

Dual Elective Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Media Wellness	COMM 143		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	Cyber Wellness	COSC 143		Semester	0.5	

COMPUTER SCIENCE

- 351** [**ADVANCED PLACEMENT COMPUTER SCIENCE A**](#) (10th – 12th grades) full year/weighted 1.00 credit
This college-level course follows the Advanced Placement Computer Science curriculum and is designed to prepare a student for the AP Computer Science exam. Content includes: simple, user defined and structured data types, algorithm development, decisions and loops, array, recursion, searches and sorts, data abstraction, and classes. The programming language Java will be used. ***Students taking this course must have successfully completed a Computer Science course (AP CSP, Computer Programming and Coding I, OR Explorations in Computer Science) OR have prior approval from the instructor.**
- 447** [**COMPUTER PROGRAMMING AND CODING I**](#) (9th – 12th grades) 1 semester .50 credit
This course is designed as a first course in computer science programming. Students will learn the basics of computer programming and computer science. The material emphasizes computational thinking and helps develop the ability to solve problems. This course covers the basic building blocks of programming along with other central elements of computer science. The concepts covered in the course include: program design and coding, number calculations and data, decision making, repetition and loops, and graphics. The primary language for the course is Python. It gives a foundation in the tools used in computer science and prepares students for further study in computer science, including the Computer Programming and Coding II and AP Computer Science courses.
- 448** [**COMPUTER PROGRAMMING AND CODING II**](#) (9th – 12th grades) 1 semester .50 credit
This course is a continuation of Computer Programming and Coding I. Students must have completed the Computer Programming and Coding I course. Students will continue to learn the basics of computer programming along with the basics of computer science. The material emphasizes more advanced computational thinking and helps develop the ability to solve problems. This course continues to cover the building blocks of programming along with other central elements of computer science. The concepts covered in the course include: "for" loops, text and string processing, functions, arrays, 2D arrays, and web development. The primary language for the course is Python. The course prepares students for further study in computer science, including the AP Computer Science course.

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Problem Solving and Struct Prog	COSC 110		Semester	0.5	Students should have completed Computer Programming and Coding I and II with a minimum of a B

Online)							average in both courses in order to be prepared for COSC 110.
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- 449** **EXPLORATIONS IN COMPUTER SCIENCE** (9th – 12th grades) 1 semester .50 credit
- This course is a first course in computer science and introduces students to computer science and the correct ways to design and write computer programs using Visual Basic. The goal is to provide an introductory-level course in computer programming for students with no previous programming experience. The concepts covered in the course include: an introduction to computer science and computer programming, program and graphical user interface design, program design and coding, variables and arithmetic operations, decision structures, and loop structures. It gives a foundation in the tools used in computer science and prepares students for further study in computer science, including the Computer Programming and Coding I and II courses and the AP Computer Science course.

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Fundamentals of Computer Science	COSC 105		Semester	0.5	Students should have completed Explorations in Computer Science or Computer Programming and Coding I with a minimum of a B average in order to be prepared for COSC 105.

ENGLISH

- 018** **ENGLISH AS A SECOND LANGUAGE** (9th – 12th grades) full year
1.00 credit

The English as a Second Language curriculum addresses the individual needs of English Language Learners as they make progress through levels of proficiency in English. The curriculum is individualized according to the needs of each student. Acquisition of a second language is a long-term process, and the student's progress is influenced by age, rate of acquisition, prior education background, fluency in the native language, and personal motivation. The course goal for each English Language Learner is to demonstrate measurable progress on approved Pennsylvania Department of Education and district assessments. ***Special approval required**

- 402** **ACADEMIC INTERVENTION: LITERATURE** (9-11th grades) .50 credit

9TH Grade students whose PVAAS Projection rate falls between 40% - 70% or are without a rate are enrolled in Academic Intervention. Academic Intervention provides freshman students opportunities to improve their understanding of ELA concepts and skills for subsequent enrollment in ELA courses and to optimize performance on the Keystone Literature Exam that is given at the end of the sophomore year. Students who demonstrate adequate growth in identified areas of improvement are excused from enrollment in Academic Intervention Literature.

Students who do not score Proficient on the Keystone Literature Exam will receive additional support to strengthen understanding and skills for subsequent ELA enrollment and to optimize performance by retaking the Keystone Literature Exam during the junior year. Retake Exams are provided in December and May. Academic Intervention students who score Proficient will receive .5 credit (Pass), and are excused from Academic Intervention.

English is taught on three levels of ability, each of which fosters discovery, development, refinement and synthesis of language skills. Students are scheduled for a particular level by their previous English instructor.

Grade 9

- ENGLISH 9** full year
1.00 credit

OL ENGLISH 9

English 9 is a survey course. Its objective is to improve the students' skills in grammar, English usage, mechanics, sentence structure, composition, spelling and vocabulary, and to improve students' appreciation of literature, including the short story, novels, nonfiction and drama. A grammar review is conducted with new grammar presentations on materials. Multi-paragraph theme writing is stressed after the development of the single paragraph. The main drama presentation for

The year is Romeo and Juliet. Videotapes are used to supplement and augment classroom selections. A structured program in vocabulary growth is conducted weekly throughout the course.

091 ENGLISH 9 ACADEMIC TRANSITION: This level concentrates on skill development and skill application. The class is designed to help students work toward grade level performance by developing the skills necessary for effective communication. The curriculum is based on academic standards which incorporate activities involving reading, written expression, oral expression, listening comprehension, and study skill strategies. Application of these skills involves “real life” activities to encourage the student to become an independent and productive adult. The class is taught at a pace best suited to the needs and abilities of the student.

092 ENGLISH 9 ACADEMIC: This level concentrates on mastery of skill development, skill refinement with skill synthesis.
87092 The class is designed for the student who has on or above grade level reading and writing skills, is capable of being an independent learner, enjoys self-guided learning activities and class discussion. The material is taught with greater depth and at a faster pace than Academic Transitions English classes.

093H HONORS ENGLISH 9. This level is designed for the highly motivated student who has a strong command of the English language and has above grade level reading and writing skills. This class concentrates on skill synthesis in relation to writing using various modes of development and in relation to analyzing different genres of literature. Students who enroll in Honors English should fully embrace the challenge that accompanies the rigor of the class.

Grade 10

ENGLISH 10 full year
1.00 credit
OL ENGLISH 10

Students in tenth grade English will explore Colonial to Contemporary American Literature, including several classic American novels. In addition to studying the works of American authors, students will recognize how the philosophy of each time period, such as Puritanism, Rationalism, Romanticism, and Realism is reflected in the stories, poems, essays, plays or novels. This course also focuses on developing writing skills with particular emphasis on the substantiation of a thesis statement and the recognition and demonstration of the various forms of compositions. The necessity for the clear communication of oral ideas will also be stressed. Another major component of the course involves developing the skills required to write an informative paper, a research project that promotes analytical thinking, independent learning and perceptive reasoning.
The final grade for English 10 will be withheld pending satisfactory completion of the Culminating Project.

002 ACADEMIC TRANSITION: This level concentrates on skill development and skill application. The class is designed to help students work toward grade level performance by developing the skills necessary for effective communication. The curriculum is based on academic standards which incorporate activities involving reading, written expression, oral expression, listening comprehension, and study skill strategies. Application of these skills involves “real life” activities to encourage the student to become an independent and productive adult. The class is taught at a pace best suited to the needs and abilities of the student.

003 ACADEMIC: This level concentrates on mastery of skill development, skill refinement with skill synthesis. The class is designed for the student who has on or above grade level reading and writing skills, is capable of being an independent learner, enjoys self-guided learning activities and class discussion. The material is taught with greater depth and at a faster pace than Academic Transitions English classes.
87003

006 HONORS ENGLISH 10. This course is a survey course of American Literature. Starting in 1620, the course will cover literature from Realism, Romanticism, the Roaring Twenties and Jazz Age, and Depression Era, and as well as the Harlem Renaissance. Literature will include short fiction, fiction, poetry, nonfiction, and drama and will cover literary terms including, but not limited to, the archetype, the allegory, irony, theme, symbol, and satire. Writing assignments will focus on the research paper, literary analysis, the narrative, expository, argument, and comparative analysis. There will be an emphasis on increasing academic vocabulary. Additionally, students will have the opportunity to hone their public speaking skills. **Prerequisite: Successful completion of Honors 9.**

007 HONORS ENGLISH 10 – APUSH: This course is a survey course of American Literature with a focus on the history of the United States. Starting in 1620, the course will cover literature of the Puritan, Realism, Romantic, Civil War, Industrial, Roaring Twenties, the Depression era, and end in the Cold War time periods. Literature will include short fiction, fiction, poetry, nonfiction, and drama and will cover literary terms including, but not limited to, the archetype, the allegory, irony, theme, symbol, and satire. Writing assignments will focus on the research paper, literary analysis, the narrative, expository, argument, and comparative analysis. There will be an emphasis on increasing an academic vocabulary. Additionally, students will have the opportunity to hone their public speaking skills. Students must be enrolled in the United States History course in order to be enrolled in this course.
AP

Grade 11

ENGLISH 11

1.00 credit

full year

OL ENGLISH 11

This full year course will focus on ancient through modern World Literature with selections from Europe, Asia, Africa and the Americas. Students will write and speak about how their reading relates to literary elements, world cultures, and their own personal views. Additionally, students will complete a unit dealing with the selection of career training options. Students will be encouraged to work independently and in small groups, thus developing personal life-long learning practices.

The final grade for English 11 will be withheld pending satisfactory completion of the Culminating Project.

010 ACADEMIC TRANSITION: This level concentrates on skill development and skill application. The class is designed to help students work toward grade level performance by developing the skills necessary for effective communication. The curriculum is based on academic standards which incorporate activities involving reading, written expression, oral expression, listening comprehension, and study skill strategies. Application of these skills involves real life activities to encourage the student to become an independent and productive adult. The class is taught at a pace best suited to the needs and abilities of the student.

011 ACADEMIC: This level concentrates on mastery of skill development, skill refinement with skill synthesis.

87011 The class is designed for the student who has on or above grade level reading and writing skills, is capable of being an independent learner, enjoys self-guided learning activities and class discussion. The material is taught with greater depth and at a faster pace than Academic Transitions English classes.

019 CHS AP ENGLISH LANGUAGE AND COMPOSITION (11th grade) full year 1.00 credit
The focus of this course is to engage students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts. Students will also engage in becoming skilled writers who compose for a variety of purposes. The course focuses predominantly on non-fiction reading and writing and the examination/analysis of a writer's use of rhetorical devices and strategies to achieve a particular purpose. Classes are traditionally small, seminar groups. Grades are based primarily on essays, which are either timed in-class writings, or lengthier outside papers which serve as culminating activities. The Accelerated English course in tenth grade is strongly recommended as a prerequisite for the class. Due to the nature of the course and the exam, any student who does not maintain a minimum of 3.0 course average or better may be asked to choose an alternate class. This course includes a mandatory summer reading assignment. ***Special approval required/recommendation of 10th grade English teacher.**

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
WCCC	CHS	College Writing	ENG 161		Year	1.0

Grade 12

87015 OL ENGLISH 12

1.00 credit

full year

This full year survey course will focus on the literature of Britain. Units are approached chronologically and students are encouraged to write in various modes using the literature as a springboard. Additionally, students will exercise research skills and make connections with career options. Students will have opportunities to self-select materials for independent work and/or small group projects. This course is only available at the transition and academic learning levels.

ENGLISH 12

1.00 credit

full year

In English 12, students will read critically, write effectively, synthesize complex information, and engage in sophisticated discussion. Reading experiences include fiction, nonfiction, poetry, drama and non-print texts. Writing instruction builds upon previous years, and the assigned essays allow students to master the following modes: response, narrative, argument, analysis, and exposition. Students will work with the research and drafting processes and will be given the opportunity to develop their oral communication skills through class discussions and formal presentations. The units that comprise the English 12 curriculum reflect the college-readiness standards of the Common Core. STEM writing and media studies are included. Instructors may modify the curriculum as individual class needs emerge.

014 ACADEMIC TRANSITION: This level concentrates on skill development and skill application. The class is

designed to help students work toward grade level performance by developing the skills necessary for effective communication. The curriculum is based on academic standards which incorporate activities involving reading, written expression, oral expression, listening comprehension, and study skill strategies. Application of these skills involves "real life" activities to encourage the student to become an independent and productive adult. The class is taught at a pace best suited to the needs and abilities of the student.

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	English Composition* Requires placement testing	ENGL 101		Semester	1.0	

015ACADEMIC: This level concentrates on mastery of skill development, skill refinement with skill synthesis.

87015 The class is designed for the student who has on or above grade level reading and writing skills, is capable of being an independent learner, enjoys self-guided learning activities and class discussion. The material is taught with greater depth and at a faster pace than Academic Transitions English classes.

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Big IdeaI: Ancient to Enlightenment	ARHU 122		Semester	1.0	English 9 & 10
IUP (Campus and/or Online)	Dual Enrollment	Big IdeaI II: Enlightenment to Present	ARHU 123		Semester	1.0	English 9 & 10

12th Grade students have the option of taking two semester courses from the following list to satisfy the 1 credit 12th grade English requirement.

017 **AP ENGLISH LITERATURE AND COMPOSITION** (12th gr.) full yr. /weighted 1.00 credit

The focus of this course is expository writing about literature. Classes are traditionally small, seminar groups. Students read texts from a variety of genres, eras, and cultures. Grades are based primarily on essays, which are either timed in-class writing or lengthier outside papers which serve as culminating activities. Students who elect this course should enjoy reading. Accelerated courses in tenth and eleventh grades are strongly recommended. Due to the nature of the course and the exam, any student who does not maintain a minimum of 3.0 course average or better may be asked to choose an alternate class. This course includes a mandatory summer reading assignment. ***Special approval required/recommendation of 11th grade English teacher.**

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Humanities Literature*	ENGL 121	ENGL 101	Semester	1.0	A.P. Language & Composition

ELECTIVE ENGLISH COURSES

022 **CHS CREATIVE WRITING** (9th-12th grade) 1st or 2nd semester

.50 credit

The Creative Writing course is a multi-genre introduction to the craft of creative writing. In the context of a variety of genres, students will examine literary conventions as well as the writing techniques and tools essential to effective writing and editing. Writings will follow the creative process from drafting to publishing. Writing genres include essays, short stories,

poems, and plays. Curriculum and instruction are aligned to the PA state core curriculum content standards. **Students taking this course will be eligible to earn WCCC credit through participation in the IASD College in High School Program.**

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
WCCC	CHS	Creative Writing	ENG 165		Year	0.5

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Creative Writing*	ENGL 221	ENGL 121	Semester	0.5	Students take this course as a senior English elective. Therefore, they should be seniors to take it.

031 **CHS PUBLIC SPEAKING** (9th – 12th grades)

1st semester

.50 credit

Public speaking is a one-semester course, meeting five days a week, which is open to students in grades nine through 12. Speaking in a non-competitive atmosphere and focusing on a non-threatening speaking environment, this course strives to provide opportunities for the students to present in a classroom setting, on a stage with a microphone as well as in the digital setting. Students will learn the basic speech types and how to provide a well-organized framework for any speech or presentation they might make. Through taking this course, students will acquire skills in presenting clear, concise, well-organized, interesting ideas to an audience. Students will also acquire and refine skills in listening actively to the ideas of others.

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
WCCC	CHS	Effective Speech	SPC 155		Semester	0.5

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Public Speaking*	ENGL 310	ENGL 101	Semester	0.5	English 9 as most colleges will not give college credit to a 9th grader. Although freshman students have and are successful in the class, if they take it freshman year they may be forfeiting their chance to receive college credit for it.

033 **DRAMA I** (9th – 12th grades)

1st semester

.50 credit

Drama I explores the fundamentals of acting, stagecraft, stage safety and script analysis. It is not an ACTING class but rather a performance art class. Units of study include aspects of acting techniques, technical theater terminology, storytelling and improvisation, vocal production (including projection and articulation), theater history (Greeks – Middle Ages), monolog study and a final performance using contemporary material. Opportunities for practical hands-on experience include scenic design,

set decoration, stage makeup and costume design. It is primarily a participatory performance oriented class and it is not a prerequisite to Drama II.

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Intro to Theater	THTR 101		Semester	0.5	Academic or Honors English 9 and Academic English 10 - students who are planning on majoring or minoring in theater should not take this course as it is for non-theater majors. A better course for aspiring theater majors would be THTR 111, THTR 132, or THTR 140. Additionally, such students will need to take Drama I or II and have worked/performed in a few shows.

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Intro to Theater: Teamwork	THTR 161 or		Semester	0.5	Academic or Honors English 9 and Academic English 10 - students who are planning on majoring or minoring in theater should not take this course as it is for non-theater majors. A better course for aspiring theater majors would be THTR 111, THTR 132, or THTR 140. Additionally, such students will need to take Drama I or II and have worked/performed in a few shows.

034 [DRAMA II](#) (9th – 12th grades) 2nd semester .50 credit

Drama I is not a prerequisite to Drama II. The same stage safety skills, performance and technical skills and techniques taught in Drama I are addressed and expanded upon in Drama II. Script analysis, dramatic structure and theater history will continue to be studied from Shakespeare to Ibsen with an additional unit on American musical theater history. Instruction and experience in directing technique is an emphasis and students will have the opportunity to create a director's notebook and direct a representative scene using other students in the class. The laboratory nature of Drama I is again stressed in this class which is primarily performance oriented.

035 [JOURNALISM \[NEWSPAPER\]](#) (9th – 12th grades) full year 1.00 credit

This course is primarily an independent workshop course in which students produce content for the High Arrow, the school newspaper while also learning about the aspects and elements of newspaper-style writing and journalism through student-centered assignments. Students will be involved in the writing, editing, layout, and photography of both the High Arrow website and periodic newsletters. Web-based applications are taught and utilized for the layout and design of the articles and implementation of student-produced content in a web-based delivery platform. Students are expected to work in an independent, responsible, and dependable manner. Second and third-year students of the course will be elected to serve as editors of the newspaper and its supporting articles and content. Students taking this course must have the desire and drive to advance their interviewing, writing, and reading skills along with work ethic through rigorous and self-driven academic activities. Students are expected to be able to work independently and dependably as well as cooperatively to meet deadlines for assignments and vital for timely publication of their work.

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Layout, Production, and Design*	JRNL 327	COMM 101 or JRNL 105	Semester	1.0	In order to be successful in JRNL 327, students should have completed the following courses: Newspaper Journalism

036 **JOURNALISM [YEARBOOK]** (9th – 12th grades) full year
1.00 credit
This course is primarily a workshop course in which students actually produce a yearbook for the school. All phases of production are experienced: finance (including budget), promotion and sales, layout design, photographic principles, copy writing, and dummy productions. In addition, students gain an understanding of the engraving and printing process and develop attitudes of self-discipline. They learn the necessity for individual responsibility in team effort. Because it is a computer designed yearbook, desktop publishing programs are used. It is strongly suggested that students also enroll in course 442, Microsoft Publisher/Adobe InDesign. Membership will be contingent upon the number of available openings.

Dual Elective Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Journalism and the Mass Media	JRNL 105		Semester	0.5	
IUP (Campus and/or Online)	Dual enrollment	Critical Thinking	PHIL 101		Semester	0.5	

FAMILY AND CONSUMER SCIENCES

507 **CHEF'S CORNER** (9th – 12th grades) 2nd semester
.50 credit

Love cooking and trying new foods? Think wielding a chef's knife is an art form? What to be the next *IHS Chopped Champion*? Chef's Corner is a course designed to provide the knowledge of the basic culinary skills and an appreciation for the art of cooking. In this class you will learn an appreciation food preparation technique, develop basic cutting skills, experiment with cooking methods, and understand the means to bring out the best flavors and nutrients in food. We'll run the gamut of lab experiences from fruits and vegetables to meats and poultry, building the skills and confidence in cooking to last a lifetime. Prepare to enjoy food in a myriad of new ways

514 **CHILD DEVELOPMENT AND PRESCHOOL** (10th – 12th grades) 1st or 2nd semester .50 credit

ALL students, male and female, will find this course informative, invaluable and fun. The course begins by focusing on the physical, social/emotional and intellectual development of children. Students will discover how children learn, what behavior to expect at various ages and how to communicate and work with children. Then to enhance the child development class experience, students will participate in the IHS PRESCHOOL program, located at the senior high, by observing, planning, preparing and teaching activities for the preschoolers and working/playing with the preschoolers enrolled in the program. Students whose career paths will involve working with young children may elect this course for credit more than once only if class size permits and with teacher permission.

Option(s) Dual Credit

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Child Development	CDPR 218		Semester	0.5	Child Development in grade 11 and pass with a grade of B or better.

517 **A'LA CARTE BAKING** (9th – 12th grades) 1st semester
.50 credit

Breads, pastries and cookies speak to the creative "you"? Think you have what it takes to be a winner in the *IHS Cupcakes Wars*? This course is designed to provide the knowledge and skills needed to successfully prepare baked products as well as to develop an appreciation for the art and science of baking. Beginning with an understanding of baking terminology and equipment, students will move through the functions of baking ingredients, mixing methods, presentations, and identifying quality baked products. With nearly daily lab activities students will experience various baking techniques to prepare their choices of a variety of quick breads, yeast breads, pastries, dozens of cookies and delicious cakes. *A'La Carte Baking* will increase your expertise and confidence in baking and provide a tasty outlet for your creativity.

- 528 CAREER AND WORK READINESS** (11th-12th grades) 1st or 2nd semester .50 credit
87528 OL CAREER AND WORK READINESS
 This is a course designed to give learners an overview and understanding of the topics of study associated with Family and Consumer Science, BCIT, and Career Education and Work Standards. Students will develop skills in areas related to post-secondary employment and independent living. Topics covered include career research, job skills, money management, housing, transportation, taxes, insurance, developing and following a budget, and self-advocacy as a consumer. This course is designed to help students develop the skills necessary to make daily decisions, and to successfully manage their lives after completion of high school. This course will satisfy the Family and Consumer Science Graduation Requirement Credit.
- 529 FACS of LIFE** (9th - 10th grades) 1st or 2nd semester .50 credit
 This is an introductory course designed to give learners an overview and understanding of the topics of study associated with Family and Consumer Science within a framework of Social and Emotional Learning. This class will expose learners to various personal, family, community, and global issues which impact their daily lives with a goal towards providing the tools for all to reach more fulfilling and productive lives. Content areas of study will include: communication, goal setting, decision making, conflict management, family relationships, exploratory nutrition, introductory money management, clothing care, recycling, community service, and basic child care. Theoretical discussions and hands-on activities will make-up the typical learning experiences in this course. This class is suggested for grades 9 and 10, but may be taken in grades 11 and 12. *

VISUAL ARTS

- 680 FINE ARTS 9** (9th grade) 1st or 2nd semester .50 credit
 This semester course will offer 9th grade students an opportunity to experiment in a variety of mediums and techniques. It will cover the following 2-dimensional areas: drawing from observation, portrait drawing, pen & ink, and acrylic painting. Students will be encouraged to learn to work independently and creatively while exploring this area of art.
- 682 3 DIMENSIONAL ART 9** (9th grade) 1st or 2nd semester .50 credit
 Students will have the opportunity to work with a variety of 3-dimensional materials during this semester course. They will learn hand building and glazing techniques in ceramics. The fundamentals of jewelry making will be explored to create a wearable art piece using three different metals. The students will also explore the areas of mosaics and the fiber arts. They will be encouraged to express their creativity in these areas and expand their knowledge in the arts.
- 724 ART I** (10th – 12th grades) full year 1.00 credit
 This is a full year course made up of one semester of 2-dimensional art and one semester of 3-dimensional art. It is designed to introduce the student to the essentials of aesthetics and visual arts, and may be elected at the 10th, 11th and 12th grade level. Fundamentals of design will lead into exploration of drawing, painting, printmaking, clay, and metals. Art appreciation will be blended into this studio course, which is recommended for general enrichment or for the student who may decide on an art related career. ***Art I is a prerequisite for all advanced visual arts classes.**
- 725 VISUAL ARTS/2 DIMENSIONAL** (11th – 12th grades) 1st or 2nd semester .50 credit
726 This course is a continuation and further study of the knowledge obtained in Art I, and implements the fine art skills of drawing and painting through the use of multiple mediums. It is a course that can be selected each semester for additional credit and experience. Students are encouraged to discover through experimentation and build on the foundations taught in Art I. Students will expand their creative and critical thinking skills, and will broaden their problem solving abilities. ***Students are required to have a 2.5 minimum grade point average in Art I, course 724, in order to enroll in this course and must maintain this average in order to continue to be enrolled in advanced level art course offerings.**
- 727 VISUAL ARTS/3 DIMENSIONAL** (11th–12th grades) 1st or 2nd semester .50 credit
728 This program is designed to further develop the skills and techniques of the returning student. Students will be encouraged to express themselves creatively in clay, metal, fiber, glass, and other related materials. Emphasis will not only be on creative design, but on the quality of craftsmanship through a correct understanding of materials and techniques. ***Students are required to have a 2.5 minimum grade point average in Art I, course 724, in order to enroll in this course and must maintain this average in order to continue to be enrolled in advanced level art course offerings.**
- 729 VISUAL ARTS/CONTEMPORARY POTTERY** (11th – 12th grades) 1st or 2nd semester .50 credit
730 This course is designed to further develop ceramic skills and techniques of the 3-Dimensional Design student by implementing the use of the pottery wheel as well as hand building techniques. Emphasis will not only be on the skill, but also on the

techniques necessary to create refined and functional pieces of art. It is a course that can be selected each semester for additional credit and experience. **Prerequisite: A minimum GPA of 2.5 in Art I to enroll in this class.**

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Ceramics	ART 214		Semester	0.5	Students who wish to take Contemporary Pottery must first pass both semesters of Art I with at least a 75% or better.

Dual Elective Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Figure Drawing	ART 111		Semester	0.5	There is no prerequisite for Art I other than being a sophomore or higher.
IUP (Campus and/or Online)	Dual Enrollment	3 dimension design /Color and 2-D Design	ART 113 or		Semester	0.5	There is no prerequisite for Art I. Students can take it any time between 10th and 12th grade.
IUP (Campus and/or Online)	Dual Enrollment	Intro to Art	ARHI 101		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment		ART 114		Semester	0.5	

HEALTH/PHYSICAL EDUCATION

836

HPE 9 (9th grade)

1st or 2nd semester
.50 credit

Physical Education – This component includes organized team, individual and recreational activities. It will promote physical fitness, skill development, social interaction, and appreciation of physical fitness.

Health – This component is designed to develop an awareness of healthy active living through a combination of physical activity and appropriate lifestyle choices. Students will acquire knowledge about a wide variety of health-related topics and develop relevant skills to apply their learning to make positive healthy decisions. By studying growth and development, injury prevention and safety, mental and emotional health, family living, child development, nutrition, alcohol, tobacco and other drugs, communicable and chronic diseases and injury, consumer and community health, and environmental health, students will become aware of how their actions and decisions affect their health, fitness, and personal well-being.

839**HPE 9 FITNESS-BASED** (9th grade)1st or 2nd semester

.50 credit

PE: This component will feature fitness activities such as fitness center, yoga, circuit training, etc. as well as individual sports such as badminton, pickleball, and rock climbing. Sports taught in this unit are sports geared more towards lifetime enjoyment. Students will learn how to use the fitness center properly and how to develop their own personal fitness plan. This course can best be described as a blend of traditional PE along with fitness elements and non-traditional sports. Less emphasis is placed on competitive team based sports (basketball, soccer, football) and more emphasis is placed on personal fitness as well as developing interest in activities that keep you physically active for a lifetime.

Health: This component is designed to develop an awareness of healthy active living through a combination of physical activity and appropriate lifestyle choices. Students will acquire knowledge about a wide variety of health-related topics and develop relevant skills to apply their learning to make positive healthy decisions. By studying growth and development, injury prevention and safety, mental and emotional health, family living, child development, nutrition, alcohol, tobacco and other drugs, communicable and chronic diseases and injury, consumer and community health, and environmental health, students will become aware of how their actions and decisions affect their health, fitness, and personal well-being.

87836**OL HPE 9**

1st or 2nd semester

.50 credit

This is a 1 semester (2 quarter) class. Each quarter includes an online component as well as a physical activity component. Each quarter requires 10 hours (20 hours for the semester) of documented physical activity in the school fitness center. Activity hours can be documented by a physical education teacher or Mr. Detweiler, the fitness center technician. Practice hours for a school sport can no longer be used to fulfill the physical activity. Instruction includes both physical and mental health topics, community first aid, food and nutrition, social relations, sex education, child development, alcohol, tobacco and drug abuse. It is intended to teach all students the proper care of the human body.

837**HPE 10** (10th grade)1st or 2nd semester

.50 credit

87837**OL HPE 10**

This is a 1 semester (2 quarter) class. Each quarter includes an online component as well as a physical activity component. Each quarter requires 10 hours (20 hours for the semester) of documented physical activity in the school fitness center. Activity hours can be documented by a physical education teacher or Mr. Detweiler, the fitness center technician. Practice hours for a school sport can no longer be used to fulfill the physical activity. Instruction includes both physical and mental health topics, community first aid, food and nutrition, social relations, sex education, child development, alcohol, tobacco and drug abuse. It is intended to teach all students the proper care of the human body

838**HPE 11** (11th grade)1st or 2nd semester

.50 credit

87838**OL HPE 11**

This is a 1 semester (2 quarter) class. Each quarter includes an online component as well as a physical activity component. Each quarter requires 10 hours (20 hours for the semester) of documented physical activity in the school fitness center. Activity hours can be documented by a physical education teacher or Mr. Detweiler, the fitness center technician. Practice hours for a school sport can no longer be used to fulfill the physical activity. Instruction includes both physical and mental health topics, community first aid, food and nutrition, social relations, sex education, child development, alcohol, tobacco and drug abuse. It is intended to teach all students the proper care of the human body.

830 PHYSICAL EDUCATION 12 (12th grade)

1st or 2nd semester

.50 credit

87832 OL PHYSICAL EDUCATION 12

This is a 1 semester (2 quarter) class. Each quarter includes an online component as well as a physical activity component. Each quarter requires 10 hours (20 hours for the semester) of documented physical activity in the school fitness center. Activity hours can be documented by a physical education teacher or Mr. Detweiler, the fitness center technician. Practice hours for a school sport can no longer be used to fulfill the physical activity. Instruction includes both physical and mental health topics, community first aid, food and nutrition, social relations, sex education, alcohol, tobacco and drug abuse. It is intended to teach all students the proper care of the human body.

829**PERSONAL FITNESS** (12th grade)1st or 2nd semester

.50 credit

This class will feature fitness activities on the senior high track and in the fitness center. Students will develop personal fitness plans for the class and will exercise to achieve their fitness goals. This class fulfills .50 graduation credits of the Physical Education requirement for seniors and .50 credits of electives for juniors and seniors. This course is one of three offerings (Personal Fitness, Yoga/Current Events, PE 12th Grade) that satisfies .50 HPE credit requirements for eligible seniors.

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Nutritional Wellness	FDNT 143		Semester	0.5	HPE 9, HPE 10 and HPE 11
IUP (Campus and/or Online)	Dual Enrollment	Health and Wellbeing	KHSS 143		Semester	0.5	HPE 9, HPE 10 and HPE 11

898**YOGA/CURRENT EVENTS HEALTH** (12th Grade)1st or 2nd semester

.50 credit

In this class, we will utilize yoga practices to become more physically, mentally, energetically, and emotionally fit. This class will present techniques in yoga. Yoga means union, and refers to the union of the body, mind, and breath. It is a system of

self-care that was developed in India and is practiced all over the world. Yoga develops core strength and helps to develop lung capacity through careful breathing. The emphasis in this class will be asana practice which refers to poses and postures designed to develop flexibility, muscular strength, and muscular endurance. Emphasis will be placed on correct alignment and safe practice. Yoga students will learn concepts of physical fitness, identify stress reduction techniques, gain an increased ability to concentrate, and develop a Personal Fitness Plan to support a lifetime of fitness. Current events and health topics will also be included in this course. Students will learn about current trends in health. Topics will include drug and alcohol abuse, disease prevention and nutritional strategies to live a healthier life. This course is one of three offerings (Personal Fitness, Yoga/Current Events, PE 12th Grade) that satisfies .50 HPE credit requirements for eligible seniors.

Dual Elective Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Intro to Dance	DANC 102		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	Healthy People-Promoting Wellness	NURS 143		Semester	0.5	

945

DRIVERS EDUCATION (11th – 12th grades) .50 credit

1st or 2nd semester

“Introduction to the Driving Task” Driver Education focuses on development and implementation of safe driving practices. There are two phases for Driver Education. The classroom phase will be an online semester course, which prepares students for driving with valuable information concerning the “driving task.” The second phase is actual “on-road” experience in the various driving environments. Information obtained from the classroom phase will now be utilized in “real world” driving. This course is designed to help the students to drive “safely” on today’s highway. The course will also be beneficial for students in obtaining a PA Driver’s License. Students must have a PA Learner’s Permit or a PA Driver’s License at the time they take the class. Thirty hours of classroom theory and six hours of driving are required to successfully complete this course.

MATHEMATICS

The math department strongly recommends that all students consider taking four years of mathematics in grades 9 through 12. Students who are considered to be grade-level in mathematics will complete Precalculus by the end of their senior year at IHS. Students stand the greatest chance to be successful on the math portion of their college entrance exams if they are minimally on grade-level in mathematics.

For students interested in accelerating themselves in mathematics there are two primary options: A) Students can double up in math by taking Geometry and Algebra 2 during the same school year or B) Students can take Geometry online over the summer after they have completed Algebra 1. Option B does carry a cost to the student. If you are interested in accelerating in math after Algebra 1, you should speak with your Algebra 1 teacher about your plan.

For your convenience the course descriptions for the math classes offered at IHS are grouped based upon the type of course that they are. Please read the descriptions of the types of courses and consult your current math teacher as you make your scheduling plans for next year.

Accelerated Courses – Accelerated courses are intended for students considered to be a minimum of one year ahead of grade level in their math courses.

335

GEOMETRY (accelerated) (9th grade) 1.00 credit

full year

This course moves at a faster pace than course 337. Students will be exposed to a strong foundation in Geometry aligned with the Common Core Standards. Topics include measurement, reasoning and proof, angle relationships, similarity and congruence, area and volume, an introduction to right triangle trigonometry, and properties of circles.

354

ALGEBRA II (accelerated) (9th – 10th grades)

full year

1.00 credit

This course moves at a faster pace than course 353. Students will be exposed to a strong foundation in Algebra II aligned with the Common Core Standards. Topics include functions, systems of equations, quadratic functions, polynomials, radicals and rational exponents, exponential and logarithmic functions, rational functions, sequences and series, and probability and statistics. Some coursework will require the use of a TI-83 graphing calculator.

- 359** **CHS HONORS PRE-CALCULUS** (9th – 12th grades) full year
1.00 credit
This course moves at a faster pace than course 355. Students will be exposed to a strong foundation in Precalculus aligned with the Common Core Standards. Topics to be studied include functions and graphs, polynomial, power and rational functions, exponential, logistic and logarithmic functions, an extensive study of trigonometry, and discrete mathematics. .
Students taking this course will be eligible to earn either WCCC or Mt. Aloysius credit through participation in the IASD College in High School Program.

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
WCCC	CHS	College Algebra/Precalculus	MTH 157/158		Year	1.0

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
Mt. Aloysius	CHS	Precalculus	MATH 113		Year	1.0

- 348** **PRE-ALGEBRA** (9th – 11th) full year
1.00 credit

87348 OL PRE-ALGEBRA

Pre-Algebra provides a solid foundation in order to fully prepare students for Algebra I. Chapters 1-3 focus on integers, rational numbers and real numbers in order to set the stage for equations, inequalities and functions. Real-World applications to the more abstract algebraic concepts are found throughout the text. Students will use calculators, software, websites and manipulatives to apply concepts and solve problems. Students who successfully complete the course will enter Algebra I.

- 350** **ALGEBRA I** (9th grade) full
year 1 periods 1.00 credit

87350 OL ALGEBRA I

Students will be exposed to a strong foundation in Algebra I which is intended to prepare them to take the Pennsylvania Algebra I Keystone Exam. Topics include solving linear equations and inequalities, introduction to functions, linear functions, systems of linear equations and inequalities, data analysis and probability, and exponents. Selected material covered in this course will require the use of a TI-83 graphing calculator.

- 357** **ALGEBRA I BLOCK** (10th – 12th grades) full year (2 periods)
1.00 credit

The Algebra I Block covers similar content to the standard 2 periods Algebra I course. Algebra I Block is a course which will meet daily for two consecutive periods. It is designed specifically for students in 10th-12th grade who are taking Algebra I. With the additional class time students will have the ability to learn material at a more comfortable pace and have additional contact time with the teacher to get more immediate feedback while they are working independently on problems relating to concepts covered in class. Specific emphasis will be placed on preparing students to take the Keystone Algebra I Exam.

- 337** **GEOMETRY** (10th – 12th grades) full year
1.00 credit

87337 OL GEOMETRY

Students will be exposed to a strong foundation in Geometry aligned with the Common Core Standards. Topics include measurement, reasoning and proof, angle relationships, similarity and congruence, area and volume, an introduction to right triangle trigonometry, and properties of circles.

- 353** **ALGEBRA II** (10th – 12th grades) full year 1.00 credit

87353 OL ALGEBRA II

Students will be exposed to a strong foundation in Algebra II aligned with the Common Core Standards. Topics include functions, systems of equations, quadratic functions, polynomials, radicals and rational exponents, exponential and logarithmic functions, rational functions, sequences and series, and probability and statistics. Some coursework will require the use of a TI-83 graphing calculator.

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	College Algebra*	MATH 105	Math Placement Exam	Semester	1.0	Students should have taken both Algebra 1 and Geometry with a minimum of a B average in order to be prepared for MATH 105 at IUP. In addition IUP requires students taking this course to have taken a Math Placement Exam.

368 CHS STATISTICS (10th – 12th grades) full year
1.00 credit

The purpose of the statistics course is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: 1. Exploring Data: Describing patterns and departures from patterns 2. Sampling and Experimentation: Planning and conducting a study 3. Anticipating Patterns: Exploring random phenomena using probability and simulation 4. Statistical Inference: Estimating population parameters and testing hypotheses

Prerequisite: Students taking the course must have successfully completed Algebra II

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
WCCC	CHS	Introduction to Statistics	MTH 160		Year	1.0

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Prob and Stats	MATH 217		Semester	1.0	Students should have completed Algebra 2 with a minimum of a B average in order to be prepared for MATH 217 at IUP.

355 CHS PRECALCULUS (11th – 12th grades) full year 1.00 credit
87341 OL PRECALCULUS

Students will be exposed to a strong foundation in Precalculus aligned with the Common Core Standards. Topics to be studied include functions and graphs, polynomial, power and rational functions, exponential, logistic and logarithmic functions, an extensive study of trigonometry, and discrete mathematics. . **Students taking this course will be [CM 113](#) eligible to earn either WCCC or Mt. Aloysius credit through participation in the IASD College in High School Program**

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
WCCC	CHS	College Algebra/Precalculus	MTH 157/158		Year	1.0

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
Mt. Aloysius	CHS	Pre-calculus	MATH 113		Year	1.0

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Elementary Functions	MATH 110*		Semester	1.0	Students should have successfully completed Algebra 2 or OL Algebra 2 with a minimum of a B average in that course prior to taking MATH 110 at IUP.

344 [**ADVANCED PLACEMENT CALCULUS I AB**](#) (10th – 12th grades) full year/weighted 1.00 credit

This course consists of a full year of work in calculus and related topics comparable to courses in college and universities. The course is intended for students who have a thorough knowledge of college preparatory mathematics, including algebra, axiomatic geometry, trigonometry, and analytic geometry. The course will cover topics of elementary functions, limits of functions, continuity, differential calculus and integral calculus. The course is designed to prepare the student for the Advanced Placement Calculus examination. This course may include a summer assignment.

345 [**ADVANCED PLACEMENT CALCULUS II BC**](#) (11th -12th grade) full year/weighted 1.00 credit

This course consists of a full year of study in calculus and related topics comparable to second semester college calculus courses. The course is intended for students who have completed both course 344, Advanced Placement Calculus, and course 346, Advanced Placement Statistics. This course may be offered as an independent study course. Students electing to take this course must be highly motivated independent learners.

346 [**ADVANCED PLACEMENT STATISTICS**](#) (10th - 12th grades) full year/weighted 1.00 credit

This course can be taken along with but NOT in place of Precalculus and Discrete Mathematics. However, this course can be taken along with OR in place of AP Calculus or Calculus. This course is equivalent to a one semester, introductory, non-calculus based, college course in statistics. Many colleges and universities require this type of course for most of their majors. This course consists of four broad themes:

- 1) Exploring Data
- 2) Planning a Study
- 3) Producing Models using Probability and Simulation
- 4) Statistical Inference, Confirming Models

Students will extensively use TI-83 graphing calculators and FATHOM (popular statistical software used in universities and in the workplace). The students will also participate in projects (group and individual) and present their material using the Microsoft Office Series (Excel, Word, and PowerPoint). Career opportunities will also be explored.

369 [**MULTIVARIABLE CALCULUS III**](#) (12th Grade) full year/weighted 1.00 credit

This course consists of a full year of work in multivariable calculus and related topics comparable to third semester college Calculus courses. The course is intended for students who have a thorough knowledge of limits, differentiation, and integration of single variable functions. This course may be offered as an independent study course. The course will cover topics of graphical representations of multivariable curves, vectors, limits of multivariable functions, differential calculus of multiple variables and multiple integration calculus. The course is designed to complete the student's study of Calculus. Prerequisite: Students taking the course must have successfully completed AP Calculus II BC

332 [**INTEGRATED MATHEMATICS III: SPECIAL TOPICS**](#) (12th grade) full year 1.00 credit
87332 [**OL INTEGRATED MATHEMATICS III**](#)

Integrated Mathematics III: Special Topics – This course is intended for 12th graders who may not feel prepared to move forward with their next sequential math course in our regular math sequence as supported by the recommendation of their 11th grade math teacher. It is intended to provide students with an additional opportunity to master topics from Algebra, Geometry, Probability and Statistics, and Trigonometry. A student who has passed Algebra 2 with a 3.0 or higher will NOT be permitted to enroll in this course

400 [**ACADEMIC INTERVENTION: ALGEBRA**](#) (9 - 12th grades) .50 credit

9th Grade students whose PVAAS Projection rate falls between 40% - 70% or are without a rate are enrolled in Academic Intervention. Academic Intervention provides freshman students opportunities to improve their understanding of mathematics concepts and skills for subsequent enrollment in Algebra courses and to optimize performance on the Keystone Algebra Exam. Students who demonstrate adequate growth in identified areas of improvement are excused from enrollment in Academic Intervention Algebra I.

Also, students who do not score Proficient on the Keystone Algebra Exam will receive additional support in Academic Intervention to strengthen Algebra I understanding and skills for future mathematics learning and to retake the Keystone Algebra Exam. Retake Exams are provided in December and May. Academic Intervention students who score Proficient on the retake exam will receive .5 credit (Pass), and are excused from Academic Intervention.

MUSIC

- 732** **WIND ENSEMBLE** (9th – 12th grades) full year (M, W, F)
.60 credit
- This course is open to senior high students who display the desire and ability to perform wind band literature. Wind Ensemble performs at least two programs per year. The director will determine placement in Wind Ensemble. **All students must participate in both Marching Band and Wind Ensemble.** Exceptions to this policy may be granted based on athletic/academic need at the director's discretion. **Students selected to participate in Wind Ensemble must receive a weekly private lesson.** The director gives lessons during the school day and/or after school. Private lessons by a teacher outside the district will satisfy the lesson requirement as well. **Eligibility in course 732 is based upon MUSICAL PROFICIENCIES and PERMISSION OF THE DIRECTOR. Auditions are held prior to scheduling in the spring each year.** This class is paired with Jazz Band I during the same period and is held on Monday, Wednesday and Friday.
- 746** **JAZZ BAND I** (9th – 12th grades) full year (T, R)
.40 credit
- This course is open to senior high students who display the desire and ability to perform jazz band literature. The Jazz Band I performs at least two programs per year. The director will determine placement in Jazz Band I. **All students must participate in both Marching Band and Jazz Band I.** Exceptions to this policy may be granted based on athletic/academic need at the director's discretion. **Students selected to participate in Jazz Band I must receive a weekly private lesson.** The director gives lessons during the school day and/or after school. Private lessons by a teacher outside the district will satisfy the lesson requirement as well. **STUDENTS IN JAZZ BAND I MUST ALSO BE ENROLLED IN WIND ENSEMBLE 732. Eligibility in course 746 is based upon MUSICAL PROFICIENCIES and PERMISSION OF THE DIRECTOR.** Auditions are held prior to scheduling in the spring of the year. This class is paired with Wind Ensemble during the same period and is held on Tuesday and Thursday.
- 745** **SYMPHONIC BAND** (9th – 12th grades) full year (M, W, F)
.60 credit
- This course is open to all senior high students who display the desire and ability to perform wind band literature. Symphonic Band performs at least two programs per year. The director will determine placement in the Symphonic Band. Students placed in Symphonic Band are encouraged to also participate in **Marching Band**, although this participation is not mandatory. **Students selected to participate in Symphonic Band must receive a weekly private lesson.** The director gives lessons during the school day and/or after school. Private lessons by a teacher outside the district will satisfy the lesson requirement as well. **Eligibility in course 745 is based upon MUSICAL PROFICIENCIES and PERMISSION OF THE DIRECTOR.** This class is paired with Jazz Band II and is held on Monday, Wednesday and Friday.
- 747** **JAZZ BAND II** (9th – 12th grades) full year (T, R)
.40 credit
- This course is open to senior high students who display the desire and ability to perform jazz band literature. Jazz Band II performs at least two programs per year. The director will determine placement in Jazz Band II. Students placed in Jazz Band II are encouraged to also participate in **Marching Band**, although this participation is not mandatory. **Students selected to participate in Jazz Band II must receive a weekly private lesson.** The director gives lessons during the school day and/or after school. Private lessons by a teacher outside the district will satisfy the lesson requirement as well. **STUDENTS IN JAZZ BAND II MUST ALSO BE ENROLLED IN SYMPHONIC BAND 745. Eligibility in course 747 is based upon MUSICAL PROFICIENCIES and PERMISSION OF THE DIRECTOR.** This class is paired with Symphonic Band and is held on Tuesday and Thursday.
- 734** **ORCHESTRA** (9th – 12th grades) full year
1.00 credit
- The senior high orchestra is a string orchestra, consisting of violinists, violists, cellists, and bassists. Any student who has studied one of these instruments for at least one year is invited to participate. The ensemble performs three concerts per year, and additionally performs at high school graduation. Senior High Orchestra performs developmentally appropriate literature from a variety of genres and eras of musical history, including Renaissance, Baroque, Classical, Romantic, Impressionistic, 20th-Century, and 21st Century New Music. Additionally, the ensemble performs arrangements of music from a variety of global, American Classical (Jazz), and popular styles. Rehearsals are focused on applying appropriate performance techniques, historically accurate performance practices, and accepted expressive elements to the musical literature in preparation for performance. Instrumental lessons are offered during the school day, and three lessons with the orchestra conductor per quarter are required for participation. Students who study in a private studio are exempt from school lessons.
- 740C** **A CAPPELLA CHOIR** (10th – 12th grades) full year (M, W, F)
.60 credit
- A Cappella* is a vocal ensemble consisting of students in 9th through 12th grades. This mixed vocal ensemble performs developmentally appropriate choral literature from a variety of genres and eras of musical history, including Renaissance, Baroque, Classical, 19th Century, 20th Century, and 21st Century New Music. Additionally, the ensemble performs arrangements of music showcasing global, American Classical (Jazz), American musical theater, and popular

styles. Rehearsals are focused on applying appropriate performance techniques, historically accurate performance practices, and accepted expressive elements to the musical literature in preparation for performance. Auditions are held each spring for this ensemble, and eligibility is determined by vocal and musical proficiencies at the discretion of the director.

737 **BASS CHORUS** (9th – 12th grades) full year (T, R)
.40 credit

The *Senior High School Bass Chorus* is a vocal ensemble consisting of students in 9th through 12th grades whose vocal ranges are primarily in the bass clef. The Bass Chorus performs three concerts per year, rehearsing and presenting developmentally appropriate choral literature from a variety of genres and eras of musical history, including Renaissance, Baroque, Classical, 19th Century, 20th Century, and 21st Century New Music. Additionally, the ensemble performs arrangements of music from a variety of global, American Classical (Jazz), American musical theater, and popular styles. Rehearsals are focused on applying appropriate performance techniques, historically accurate performance practices, and accepted expressive elements to the musical literature in preparation for performance. No audition is required for this ensemble.

744 **TREBLE CHORUS** (9th – 12th grades) full year
1.00 credit

The *Senior High School Treble Chorus* is a vocal ensemble consisting of students in 9th through 12th grades whose voice ranges are primarily in the treble clef. This ensemble performs in three concerts per year, rehearsing and presenting developmentally appropriate choral literature from a variety of genres and eras of musical history, including Renaissance, Baroque, Classical, 19th Century, 20th Century, and 21st Century New Music. Additionally, the ensemble performs arrangements of music from a variety of global, American Classical (Jazz), American musical theater, and popular styles. Rehearsals are focused on applying appropriate performance techniques, historically accurate performance practices, and accepted expressive elements to the musical literature in preparation for performance. No audition is required for this ensemble.

738 **MUSIC THEORY** (9th – 12th grades) full year
1.00 credit

This course is designed for the serious music student to learn the fundamentals of harmony. Chord structure will take them through the progressions and resolutions of the I, IV and V in all their inversions and in all major and minor keys. This course is preparatory for students contemplating music as a profession, or for those proficient students who wish to know more about the inner workings of music. **The ability to read music in at least treble and/or bass clef is a prerequisite.**

Dual Elective Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Intro to Music	MUHI 101		Semester	0.5	No prerequisites. Recommend participation in musical ensembles.

READING

193 **DEVELOPMENTAL READING I** (9th grade) 1st semester
.50 credit

194 **DEVELOPMENTAL READING II** (9th grade) 2nd semester
.50 credit

This course is designed for ninth grade students who need to improve their reading skills in order to comprehend grade level materials in all content areas. Placement will be determined by a variety of assessments as well as teacher and/or counselor recommendation. The course objectives include developing comprehension skills, vocabulary skills, critical reading/thinking skills, and functional literacy skills that can be applied to all other subjects

SCIENCE

304

1.20 credit

BIOLOGY (9th – 11th grades)

full year

87302

OL BIOLOGY (No lab)

1.00 credit

This Biology course deals with investigation centered upon four major themes: unity, diversity, continuity, and interaction. Throughout the course, the students are exposed to applications of biological knowledge in the investigation of current problems, shown how biology relates to everyday life and given a foundation for future studies in science-related areas. Parents/guardians of 9th graders who choose to accelerate student learning in Biology are encouraged to review PVAAS Keystone Exam student success probability information with their school counselors. There is a strong correlation between projection data and success on the Keystone Biology exam. Students who do not score proficient on Keystone Exams will be scheduled for supplemental instruction the following school year. Additionally, accelerated Biology students should be enrolled in Geometry and possess aptitude and commitment to enroll in successive AP level science course work.

803C ANATOMY & PHYSIOLOGY (11th 12th Grade)

1st or 2nd semester

.50 credit

87840

OL ANATOMY & PHYSIOLOGY I

Anatomy & Physiology I is a one semester science course that will provide students with an understanding of the structure and function of the human body from cellular through the systems level. This is the first half of the Human Anatomy & Physiology curriculum and is equivalent to the first semester of a 2-semester college-level Human Anatomy & Physiology. The course content of Anatomy & Physiology I consists of the following units/body systems: Introduction to A & P, Histology, Integumentary System, Skeletal System, Muscular System, and Endocrine System. The online platform may consist of any combination of Edgenuity coursework, online textbook, and Google classroom resources to meet instructional needs of the course. *Chemistry is highly recommended prior to taking this course.*

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Human Anatomy	BIOL 150		Semester	0.5	Biology

841ANATOMY & PHYSIOLOGY II (11th – 12th Grade)

1st or 2nd sem.

.50 credit

87841

OL ANATOMY & PHYSIOLOGY II: HUMAN BODY ORGAN SYSTEM

Anatomy & Physiology II is a one semester science course that will provide students with an understanding of the structure and function of the human body systems continued from Anatomy & Physiology I. This is the second half of the Human Anatomy & Physiology curriculum and is equivalent to the second semester of a 2-semester college-level Human Anatomy & Physiology. The course content of Anatomy & Physiology II consists of the following units/body systems: Nervous System, Special Senses, Blood, Cardiovascular System, Lymphatic/Immune System, Respiratory System, and Digestive System. The online platform may consist of any combination of Edgenuity coursework, online textbook, and Google classroom resources to meet instructional needs of the course. **Prerequisite: Anatomy & Physiology I.**

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Human Anatomy	BIOL 150 - 4 credits with Lab		Semester	0.5	Biology, Chemistry, Anatomy & Physiology I & II

303ADVANCED PLACEMENT BIOLOGY (11th – 12th grades) (Double-Period)

1.20 credit

The AP Biology course is designed for students who have highly achieved in Biology 302 and Chemistry I (a 3.0

or better in both courses), and are interested in college Biology or related fields. AP Biology is a full year course, with lab periods, and is comparable to Introductory Biology courses in colleges and universities. Through labs, lectures, readings, essays and other assignments, students will study biology through the study of four major concepts:

1. **Evolution** – How evolution drives the unity and diversity of life. 2. **Metabolic Processes** – How biological systems utilize free energy and molecules to grow, to reproduce, and to maintain homeostasis. 3. **Genetics** – How living things

store, retrieve, transmit and respond to information essential for life. 4. **Ecology** – How the interactions of biological systems and the complex properties those interactions possess. This course will include a summer assignment. The AP exam will replace the final examination for this course. ***Teacher or counselor recommendation required.**

307 ENVIRONMENTAL SCIENCE (9th grade) full year
1.00 credit

87307 OL ENVIRONMENTAL SCIENCE

Students will examine the world around them as they investigate ecosystems, populations, resources, water air, and land as well as human impacts on the environment. Student centered activities including laboratory exercises and projects will be an important part of the learning experience. This course is the required grade 9 course for student not taking Biology, course 302. Students taking Biology, course 302, in grade 9 can elect to take this course in grade 10. ***Eleventh and twelfth graders can only take this course with teacher or counselor recommendation.**

308 CHS CHEMISTRY (10th – 12th grades) full year (Double-Period)
1.20 credit

87311 OL CHEMISTRY (no lab)

1.00 credit

This is a traditional chemistry course that introduces concepts about the structure and properties of chemical substances and the changes that these substances undergo with an emphasis on applications and real world situations. A laboratory component is included in this course. A background in algebraic mathematical concepts is needed for those enrolled as this course requires the application of mathematics for problem solving. This course is recommended for those students who are planning to attend college. There is a cumulative final exam. (Chemistry 308 does **not** serve as a prerequisite course for taking AP Chemistry.) **Students taking this course will be eligible to either WCCC or Mt. Aloysius credit through participation in the IASD College in High School Program.**

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
WCCC	CHS	Introductory Concepts in Chemistry	CHM 107		Year	1.2

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
Mt. Aloysius	CHS	Chemistry I	CH 101		Year	1.2

371 ORGANIC CHEMISTRY - *(Pending Board Approval) (11th – 12th grades) (full year) 1.00 credit

Organic Chemistry is an advanced level course for Juniors and Seniors designed to prepare students entering medical or science related majors in college. It will be necessary for students to work rigorously both in class and independently to become proficient in this difficult subject. Topics in this course include but are not limited to: chemical structures and bonding, organic functional groups, nomenclature, chemical transformations, reaction mechanisms, synthetic design, and spectroscopy. Teaching methods include interactive lectures, discussions, demonstrations, computer simulations, laboratory work, and group work. Students will take regular exams and quizzes in addition to cumulative midterm and final exams. (AP Chemistry not required but can be taken concurrently)

309 FOUNDATIONS OF CHEMISTRY (11th – 12th grades) (full year) 1.00 credit

The class is designed to expose students to basic chemistry concepts: the properties of matter, the periodic table, compounds and chemical reactions using various applications and hands-on activities. The class is 5 periods a week and students will be assigned by academic need.

313 ADVANCED PLACEMENT CHEMISTRY (11th – 12th grades) full year/weighted (Double-Period) 1.20 credit

AP Chemistry is a college level course that covers the same material as a typical first year college chemistry course as defined by the College Board and is organized around six "big ideas" and seven "science practices" as listed below.

The course includes laboratory work including two field trips to IUP. Students must successfully complete Honors Chemistry 314 prior to enrolling in AP Chemistry. This course includes a summer assignment.

The course centers around six big ideas and seven science practices:

Big Ideas	Science Practices
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1. Structure of Matter	1. Drawing, explaining, and interpreting representations
2. Bonding and Intermolecular Forces	2. Using mathematics and logical routines appropriately
3. Chemical Reactions	3. Asking and refining scientific questions
4. Kinetics	4. Designing and implementing data collection strategies
5. Thermodynamics	5. Analyzing and evaluating data
6. Chemical Equilibrium	6. Making predictions and justifying claims with evidence
	7. Connecting chemistry concepts across the big ideas.

314

CHS HONORS CHEMISTRY (10th – 12th grades)full year (Double-Period)

1.20 credit

Honors Chemistry will provide students with a comprehensive understanding of the structure and properties of chemical substances and the changes that these substances undergo. Students taking this course are expected to take AP Biology and/or AP Chemistry and/or AP Physics in future years. Students in this course will need to solve "word problems" and write detailed laboratory reports. Grades in this course will largely be based on tests, quizzes, and laboratory reports. Students will be assigned homework. There is a cumulative final exam. (Honors Chemistry 314 is a prerequisite course for taking AP Chemistry.) . **Students taking this course will be eligible to either WCCC or Mt. Aloysius credit through participation in the IASD College in High School Program.**

There will be a summer pre-assignment for this course that will be online and must be completed by August 15th. Students will be unable to remain in the course if they do not successfully complete this assignment. In order to enroll in this course, students will be required to: *Be enrolled in or have completed Algebra II or a higher math course. * Be proficient on all prior Keystone Exams. *Be recommended by a biology teacher. *Score above the cut-off on a pretest.

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
WCCC	CHS	Introductory Concepts in Chemistry	CHM 107		Year	1.2

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
Mt. Aloysius	CHS	Chemistry I	CH 101		Year	1.2

315 **AP PHYSICS II** (11th – 12th grades) full year (Double Period)
1.20 credit

This course follows the AP Physics 2 curriculum. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics. Many home assignments including summer assignments may be given. **Students must have at least successfully completed or be enrolled in Precalculus.**

316 **AP PHYSICS I** (10th – 12th grades) full year/weighted
(Double-Period) 1.20 credit

This course follows the AP Physics 1 curriculum. The course curriculum includes Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. Many home assignments, including summer assignments will be given. **Students must have at least successfully completed or be enrolled in Precalculus.**

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Physics I Lecture AND Lab	PHYS 111 &		Semester	1.2	Physics I Lecture and Lab

318

GENERAL PHYSICS (10th – 12th grades)
1.00 credit
87318 OL PHYSICS (no lab)

full year

Physics is the study of matter and energy and focuses on asking fundamental questions about the world that surrounds us. These questions are answered by observing and experimenting. Basic concepts of measurement, motion, matter, energy, heat, optics and electrostatics will be covered during the year. Emphasis will be on concepts and problem solving. Labs and STEM activities will be incorporated into the coursework where appropriate in order to support student learning. Students must have at least successfully completed or be enrolled in Algebra II as a minimum math requirement. Higher levels of math achievement are helpful. It is recommended that students planning careers in engineering, science, mathematics or medicine should enroll in Advanced Placement Physics 1. This is a 5 period per week course.

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Energy and Our Environment	PHYS 101 OR		Semester	1.0	
IUP (Campus and/or Online)	Dual Enrollment	The Physics of Light and Sound	PHYS 105		Semester	1.0	

297

FORENSIC SCIENCE (10th – 12th grades)
.50 credit
87297 OL FORENSIC SCIENCE

1st or 2nd semester

"This is a one semester introductory course exposing students to various branches of forensic science. Throughout the course, students will use complex reasoning skills and critical thinking to analyze physical evidence often found at crime scenes. Emphasis will be on the history of forensic science, crime scene processing, forensic biology, forensic chemistry, forensic anthropology, forensic toxicology, computer forensics, and careers in forensic science. It is strongly recommended that students should have passed Biology first before taking Forensic Science due to the life science content and concepts covered in this course."

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Intro to Forensic Biology	BIOL 107		Semester	0.5	Biology, Forensics

321

ASTRONOMY
.50 credit

1st semester

87321 **OL ASTRONOMY** (10th – 12th)

.50 credit

2nd semester

This is a one semester introductory course dealing with features and relationships of the various parts of the physical universe. Emphasis will be on the celestial sphere, stellar astronomy, constellations, members of the solar system, and the tools and methods of the astronomers. A multitude of audiovisual materials will be employed. Laboratory experiences and night sessions using several small telescopes and binoculars will be part of the course.

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Exploring the Universe-lecture	GEOS 105 &		Semester	0.5	

IUP (Campus and/or Online)	Dual Enrollment	Exploring The Universe-lab	GEOS 106		Semester	0.5	
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- 322** [GEOLOGY](#) (10th – 12th grades) 2nd semester
.50 credit
- 87322** [OL GEOLOGY](#) (10th – 12th grades) 1st semester
.50 credit

This is a one semester laboratory centered introductory course dealing with the forces and processes which shape planet earth. The primary objective of the course is to develop an appreciation and understanding of the complex interplay of various physical agents that shape the surface of our planet. Topics will include: plate tectonics, rock formation and recognition, structural geology, mapping and orienteering, fossils, and geologic time. Supplementing the course will be outdoor mapping field activities.

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	The Dynamic Earth	GEOS 101		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	The Dynamic Earth Lab	GEOS 102		Semester	0.5	

- 401** **ACADEMIC INTERVENTION: BIOLOGY** (9-11th grades) .50 credit
- Students who do not score Proficient on the Keystone Biology Exam will receive additional support to strengthen understanding and skills for retaking the Keystone Biology Exam. Retake Exams are provided in December and May. Academic Intervention students who score Proficient will receive .5 credit (Pass), and are excused from Academic Intervention.

Dual Elective Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Oceans and Atmospheres	GEOS 103		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment		GEOS 104 - Lecture and Lab		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment		GEOS 106 - Lecture and Lab		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	Geology of Climate Change	GEOS 155		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	Geology of National Parks	GEOS 150		Semester	0.5	

SOCIAL STUDIES

Social Studies Course Requirements		
Grade	Required Courses	
9	201	America and the World II - 1800's
10	210 -or- 202	America and the World III - 1900's AP United States History
11	215 -or- 219	American Government and Current Affairs AP United States Government and Politics
12	217 220 225 250 323 -or - 218 -or- 404	Economics -and- one of the following Introduction to Psychology Law and Justice Introduction to Sociology Introduction to Anthropology AP Macroeconomics Foundations of Citizenship

180	<u>PHYSICAL AND REGIONAL GEOGRAPHY</u> (9 th – 12 th grade)	2nd semester	.50 credit
87180	OL <u>PHYSICAL AND REGIONAL GEOGRAPHY</u> (9 th – 12 th grade)	2 nd semester	.50 credit

Physical and Regional Geography is a one-semester elective for Senior High students in grades 9-12. In this course, students will develop an understanding of the world around them. In the first half of the course, students will examine the organizing principles of the subject of geography, the methods used by geographers to study the world, and the physical forces that shape the world. In the second half of the course, students will select three or more geographic regions for more in-depth study.

201	AMERICA AND THE WORLD II - 1800's (9 th grade) 1.00 credit	full year
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87201 OL AMERICA AND THE WORLD II - 1800's

This is the required Social Studies course for students in the Ninth Grade. In this course, students will continue their study of important topics in U.S. and World history – focusing on the 1800's. Topics of study will include political revolutions and nation-building, the industrial revolution, the quest for civil rights, and the rise of nationalism and imperialism. Activities will emphasize the development of skills and important concepts from civics, economics, geography, and history.

-This course includes a culminating activity / final examination

202	<u>ADVANCED PLACEMENT US HISTORY</u> (10 th – 12 th grades) full year/weighted	1.00 credit
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This course is for selected tenth grade students and replaces America and the World II: 1877-1945. Eleventh and twelfth graders may elect to schedule this course in addition to the appropriate required social studies course. This is a college-level course designed to examine critical issues in US History. The course will cover the content of American History from the Age of Exploration to the present day. Students will analyze and evaluate the events, people, documents and opinions that define the American experience. Emphasis will be placed on using primary source documents, comprehension of reading materials, and writing skills.

The following are required in order to participate in this course:

- Two teacher recommendations, one English and one Social Studies.
(Recommendation forms are available in the senior high guidance office.)
- Enrollment in accelerated English
- Successful completion of a general historical knowledge pretest and a critical thinking writing prompt

- (to be administered at the senior high school on the scheduled early dismissal day in May 2022)
- Successful completion of the previous year's required social studies course (A/B average recommended)
 - Completion of a summer assignment

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Explorations in US History	HIST 196		Semester	1.0	9th and 10th grade Social Studies classes with at least a B average

210 AMERICA AND THE WORLD III - 1900's (10th grade) full year 1.00 credit

87210 OL AMERICA AND THE WORLD III - 1900

This is the required Social Studies course for students in the Tenth Grade. In this course, students will continue their study of important topics in U.S. and World history – focusing on the 1900's. Topics of study will include economic growth and decline, war and international conflict, civil rights and equality, and the contemporary world. Activities will emphasize the development of skills and important concepts from civics, economics, geography, and history.

-This course includes a culminating activity / final examination

215 AMERICAN GOVERNMENT AND CURRENT AFFAIRS (11th Grade) full year 1.00 credit

This is the required Social Studies course for students in the Eleventh Grade. In this course, students will examine the creation of the U.S. Constitution, the role of citizens and institutions in the political process, the structures of government and the policymaking process, and the protections of civil rights and civil liberties.

In addition, students will apply this information to analyze contemporary political issues. Activities will emphasize the development of skills and important concepts from civics and history. At the end of the course, all students will be required to take the Pennsylvania Act 35 Civics Assessment.

-This course includes a culminating activity / final examination

217 CHS ECONOMICS (12th grade) 1st or 2nd semester

87217 OL ECONOMICS

Economics is a required twelfth grade Social Studies course. Economics is the social science of cost, benefit and choice.

The course introduces students to the economic way of thinking and demonstrates how individual and social decision making in private and public sectors affects consumers and citizens in different economic systems. The concepts of supply and demand at the micro-macroeconomics level are utilized to illustrate the structure and function of various business firms and market organizations. Developing a comprehensive investments portfolio evidences practical application of economic concepts such as the stock market and other securities investments. In addition, the study of integral components of the U.S. economy including income, inflation, unemployment, money and banking, monetary and fiscal policies, and international trade will provide students with valuable insight to become productive workers, educated consumers and informed citizens.

-This course includes a culminating activity / final examination

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
WCCS	CHS	Elements of Economics	ECN 158		Semester	0.5

218 AP MACROECONOMICS (12TH grade) full year

1.00 credit

AP Macroeconomics is a college-level course designed to provide motivated students with an introduction to the theory and practice of macroeconomic analysis and policy-making. Beginning with an overview of basic economic concepts, such as the

structure of markets and the principles of supply and demand, students will develop an understanding of the tools of economists. From there, students will carefully explore the operation of the economy – measuring growth, employment, and prices. Next, students will analyze government policy options for ensuring economic stability and encouraging long-term growth. Finally, students will examine issues surrounding the globalization and interdependence of the economy. Assessment will consist of a variety of activities, such as class participation, homework assignments, independent projects, and AP-format unit exams. At the end of the year, students will conduct independent research and prepare a formal paper on a public policy topic of their choosing.

- Successful completion of a summer assignment is required for admission to this course
- Students taking this course should have completed or be currently taking an AP-level math course
- Students who schedule AP Macroeconomics are exempted from the Senior Elective requirement

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Principles of Macroeconomics	ECON 121		Semester	1.0	Successful completion of 9th and 10th grade Social Studies classes at IHS with a B or higher average.

219CHS [ADV. PLACEMENT U.S. GOV. & POLITICS](#) (11th – 12th grades) full year/weighted 1.00 credit

AP United States Government and Politics is a college-level course designed to

provide motivated students with an introduction to the theory and practice of American government and political science. Beginning with the philosophical and theoretical foundations of U.S. government, students will develop an understanding of the “why” of politics. From there, students will participate in a careful study of the “how” of American politics – ideology and participation, campaigns and elections, the role of the media and interest groups, the structure and function of government institutions, and current issues of public policy. Assessment will consist of a variety of activities, such as class participation, homework assignments, independent projects and AP-format unit exams. At the end of the year, students will conduct independent research and prepare a formal paper on a public policy topic of their choosing.

- Successful completion of a summer assignment is required for admission to this course

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
WCCS	CHS	American National Government	POL 155		Year	1.0

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	American Government	PLSC 111		Semester	1.0	US and World II and III. Students should have at least a B average in these courses to be considered.

220 [CHS INTRODUCTION TO PSYCHOLOGY](#) (12th grade) 1st or 2nd semester .50 credit

87220 [OL INTRODUCTION TO PSYCHOLOGY](#)

Introduction to Psychology is a one-semester elective for students in the twelfth grade. In this course, students will explore a variety of topics related to the social science field of Psychology. During the first half of the course, students will study the history and development of Psychology as a discipline, the essential aspects of Psychology research methods, and the influence of human biology on psychological processes. During the second half of the course, students will choose up to three specific topics for in-depth study. Topic choices will include: abnormal, cognition, developmental, personality, social, and states of consciousness. Mastery of learning objectives will be assessed through various methods such as class participation, homework assignments, in-class activities, independent projects, and unit exams.

- This course includes a culminating activity / final examination
- This course satisfies the Senior Elective requirement

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
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Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Intro to Sociology	SOC 151		Semester	0.5	Successful completion of 9th and 10th grade Social Studies classes at IHS with a B or higher average.

323

CHS INTRODUCTION TO ANTHROPOLOGY (12th grade)

1st semester

.50 credit

Introduction to Anthropology is a one-semester elective for students in the twelfth grade. In this course, students will explore a variety of topics related to the social science field of Anthropology. During the first half of the course, students will study the history and development of Anthropology as a discipline, the essential aspects of Anthropology research methods, and the biological foundations of human life. During the second half of the course, students will choose up to three specific topics for in-depth study. Topic choices will include: culture and language, economics and politics, family and kinship, globalization and modernization, religion and ritual, and society and status. Mastery of learning objectives will be assessed through various methods such as class participation, homework assignments, in-class activities, independent projects, and unit exams.

-This course includes a culminating activity / final examination

-This course satisfies the Senior Elective requirement

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
WCCC	CHS	Cultural Anthropology	SOC 255		Semester	0.5

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	Contemporary Anthro	ANTH 110		Semester	0.5	Successful completion of 9th and 10th grade Social Studies classes at IHS with a B or higher average.
IUP (Campus and/or Online)	Dual Enrollment	Cultural Anthropology	ANTH 211		Semester	0.5	Successful completion of 9th and 10th grade Social Studies classes at IHS with a B or higher average.

404

FOUNDATIONS OF CITIZENSHIP (12th grade)

full year

1.0 credit

Foundations of Citizenship is a substitute for the twelfth grade Social Studies requirement designed for students who experience difficulty in other Social Studies courses. In the first half of the course, students will review important concepts from Civics and Government such as founding documents, the structure of US and PA governments, the role of citizens in the political process, and the electoral system. In the second half of the course, students will study major themes in Economics, such as the function of markets, the measurement of the national economy, the effects of government policies, and the spread of globalization. Throughout the course, special attention will be given to the development of study skills and improvement of vocabulary and conceptual knowledge.

-This course includes a culminating activity / final examination

-Enrollment in this course requires the recommendation of the student's eleventh grade Social Studies teacher

-Students taking this course are exempted from the Economics / Senior Elective requirements

87403OL STRATEGIES FOR ACADEMIC SUCCESS (9th - 12th grade) 1st or 2nd semester .50 credit

The purpose of this one-half credit elective course, which incorporates an introduction to basic psychological and educational concepts, is to prepare students for the demands of high school coursework. While students work to acquire familiarity with a variety of note-taking, test-taking, memorization, and reading comprehension skills, they will complete a variety of activities intended to aid in the identification of academic strategies that are most likely to help the individual students achieve academic success.

87404
credit

OL DIGITAL CITIZENSHIP (9th - 12th grade) 1st or 2nd semester

.50

In this one-semester course, students develop essential study skills for academic success, such as staying organized, managing time, taking notes, applying reading strategies, writing strong papers, and researching and properly citing

information. Explicit modeling and ample practice are provided for each study skill to support student mastery. Instruction on how to be a responsible online learner is threaded throughout the course, and these skills are directly addressed in lessons on cyberbullying, staying safe online, and becoming a digital leader. A basic understanding of software and hardware and how to troubleshoot common technology issues are also taught. By the end of the course, students will have the tools they need to be academically successful in both traditional and digital learning environments.

Dual Elective Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency	What IHS prerequisite courses are recommended to prepare students for this Dual Credit course?
IUP (Campus and/or Online)	Dual Enrollment	World Archeology	ANTH 213		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	Crime and Justice Systems	CRIM 101		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	Basic Economics	ECON 101		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	Cultural Studies of Dress and Appearance	FSMR 125		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	Environment and Society	GEOG 101		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	Geography of the United States and Canada	GEOG 102		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	Explorations in U.S. History	HIST 196		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	Explorations in Global History	HIST 198		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	Explorations in European History	HIST197		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	Intro to Philosophy	PHIL 100		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	Contemporary Moral Issues	PHIL 122		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	World Politics	PLSC 101		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	Global Cities: Planning and Development	RGPL 103		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	Intro to Religion	RLST 100		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	Foundations of Soc; Soc	SOC 161		Semester	0.5	

Online)		Relations in Groups & Org					
IUP (Campus and/or Online)	Dual Enrollment	Contemporary Social Problems	SOC 231		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	Intro to Biomedical Ethics	PHIL 130		Semester	0.5	
IUP (Campus and/or Online)	Dual Enrollment	World Religions	RLST 110		Semester	0.5	

TECHNOLOGY EDUCATION

IHS Technology and Engineering Education Course Offerings				
Please read this chart left to right All courses are one semester in length for .5 credit				
600's	640's	650's	660's	669 or 534
<u>Start Here</u> Science of Engineering 600 (Recommending as a 9th grade course) 				

Technology education is the study of technology, in which students "learn about the processes and knowledge related to technology". As a field of study, it covers the human ability to shape and change the physical world to meet needs, by manipulating materials and tools with techniques.

Engineering The creative application of scientific principles to design or develop structures, machines, apparatus, manufacturing processes, to meet the needs of their designed intention; or to forecast their behavior under specific operating conditions; all as respects an intended function, economics of operation or safety to life and property.

Artisan is a skilled worker who uses their hands to make or create things that may be functional or strictly for decoration.

IHS Artisan Fabrication Laboratory is a facility at the Indiana Area Senior High School available for students and faculty to practice the science of engineering, manufacturing, and fabrication skills. This lab will be utilized by the technology education department to reinforce these skills through problem solving activities and scenarios.

New IASD graduation requirements guidelines permit students to substitute one of three required science credits by taking both semester-based Science of Engineering and CADD courses. Science of Engineering and CADD courses that are taken to meet science graduation credit requirements can be counted only toward the last year of science learning. Science of Engineering and CADD courses that are taken to substitute science graduation requirements may not be counted toward electives graduation requirements. Additionally, students should consider carefully any need for continued science learning through the junior and senior years to optimize post-secondary education planning and preparation

600 **SCIENCE OF ENGINEERING** (9th - 12th grade) 1st or 2nd semester .50 credit

Prepares students to understand and apply technological concepts and processes that are the cornerstone for the IASD technology education program. Group and individual activities will engage students in creating ideas, developing innovations, and engineering practical solutions. Technology and engineering content, resources, and laboratory activities will enhance student applications of science, mathematics, and other school subjects in authentic situations. Topics include the use of CADD, manufacturing, prototyping and fabrication. *Recommended as a 9th grade elective.

649 **CHS CADD (2D/3D)** (9th – 12th grade) 1st or 2nd semester .50 credit

This course is an introduction to drafting and design for students interested in learning how to communicate technical information using Computer Aided Drafting and Design (CADD) practices. The latest version of AutoCAD will be used as the students produce two dimensional as well as three dimensional drawings and models. The students will develop a portfolio that documents their competencies in techniques of drawing such as, dimensioning, modeling, and symbol use. During 3D modeling exercises, the students will explore drafting functions including render, section, and multi-view. The students will apply the export option in an effort to gain an understanding of how machines, methods of manufacturing, and prototyping are completed using CADD files. ****Students are required to have a minimum of a 2.0 grade point average in the Science of Engineering course in order to enroll.*** . Students taking this course will be eligible to earn WCCC credit through participation in the IASD College in High School Program.

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
WCCC	CHS	Technical Drafting I	DFT 105		Semester	0.5

645 **MANUFACTURING PROCESSES** (Materials manipulation) (9th – 12th gr.) 1st sem.(2nd sem. 9th gr.) .50 credit

Students in this class will learn how to safely and successfully practice operations of manufacturing tools and machines to create products, prototypes and convey solutions for various projects. The students will learn material forming, squaring, and removal processes with high tech cabinet making tools such as the CNC router, CNC lathe, laser cutter/engraver, planer, jointer, table saw, miter saw, as well as various sanding, shaping, and drilling tools. Through hands on experiences the students will gain an understanding of operations order, proper layout, time management, and production needs.

****Students are required to have a minimum of a 2.0 grade point average in the Science of Engineering course in order to enroll.***

646 **ROBOTICS ENGINEERING I** (Functions and applications) (10th – 12th grade) 2nd semester.50 credit

Robotics I is an introductory course where students will use robots to learn about engineering and engineering problem solving. They will be given introductions to the VEX Robotics Design Systems and Autodesk Inventor. Key STEM principles will be discovered through a process that captures the excitement and engagement of robotics competition. The curriculum is focused on mechatronic principles, programming is not required. Students acquire a basic understanding of many types of robots, how they operate and their application in manufacturing and entertainment. Students will be able to define important terms associated with robots, explain the different types of drive systems, and robotic sensors found in robotics. High tech machines such as 3d printers, and laser cutter engravers will also be incorporated into the course. ****Students are required to have a minimum of a 2.0 grade point average in the Science of Engineering course in order to enroll.***

647 **FABRICATION PROCESSES** (Design, materials, product) (9th – 12th grade) 1st or 2nd semester (2nd for 9th gr.) .50 credit

Students in this class will learn how to safely and successfully operate tools and machines to create products, prototypes and convey solutions for various projects. Students will learn print reading, flow process chart development, and safe material handling. Students will use CAD design software, high tech tools and machinery such as the CNC Mill, CNC Lathe, CNC Plasma cutter, gear drive lathes, vertical bandsaw, horizontal bandsaw, welding equipment, milling machine, and various hand tools.

Students will manipulate various materials in both a hot and cold form as well as discover basic principles of casting. New technology tools such as 3D printing, graphics vinyl cutting and laser cutting/engraving will also be taught. ****Students are required to have a minimum of a 2.0 grade point average in the Science of Engineering course in order to enroll in this course.***

- 644** **ASPECTS OF ENGINEERING I** (10th – 12th grade) 1st or 2nd semester .50 credit
In this class, the students will explore the study of engineering, principles, colleges, and careers. Topics of study will include the engineering aspects of materials, structures, machines, devices, systems, and processes that safely realize a desired objective. Classroom activities will consist of applying technical, scientific, and mathematical knowledge toward; current event topics, problem solving, research, product development, design, building, testing and the redesign of various systems. Students will be required to keep an engineer's journal and develop formal essays as they work individually as well as in small groups on Technology Learning Activities (TLA) ****Students are required to have a minimum of a 2.0 grade point average in the Science of Engineering course in order to enroll in this course.***
- 651** **MANUFACTURING ENGINEERING** (Design, materials, product) (10th – 12th gr) 1st or 2nd semester .50 credit
In this course students will use their processing knowledge to develop a product that demonstrates an understanding of material properties such as, density, grain direction, movement, and strength axis. Preliminary design work such as, sketches, CADD drawings, models, prototypes, and material calculations will be required. Through the design process the students will use the engineering design model to develop solutions to jointery questions and material limitations. Upon completion of the course, students will be able to identify and apply resources found locally and nationally to develop a product that is economical and of sound engineering practices. ***Prerequisite: Students are required to have a minimum of a 2.0 grade point average in the Manufacturing Processes course in order to enroll.***
- 652** **ROBOTICS ENGINEERING II** (10th – 12th grade) 1st or 2nd semester .50 credit
Robotics Engineering II is a continuation of Robotics Engineering I. This course focuses on the generation of autonomous robots. Students will be introduced to robotic computer programming such as RobotC. RobotC is used to program and operate the VEX robotics systems via a microcontroller. Students will experience a unique learning environment with the use of VEX Cortex, an interactive online video tutorial based robotics program produced by Carnegie Mellon's Robotics Academy. Students will learn introductory level programming, logic and reasoning skills, and engineering processes. Four main robotics categories will be studied; movement, remote control, censing, and engineering. Students will work in teams to design and fabricate an autonomous project. ***Prerequisite: Students are required to have a minimum of a 2.0 grade point average in the Robotics Engineering I course in order to enroll.***
- 653** **FABRICATION ENGINEERING** (10th – 12th grade) 1st or 2nd semester .50 credit
Students will work collaboratively to plan and design an advanced innovative project with various non-fibrous materials. Project requirements will include CADD drawings / illustrations, individual presentations, as well as developed working prototypes. The study, use, and application of tools, time, materials, and flow process will be emphasized in the creation of this project. Students will identify and apply resources found locally and nationally to develop a product that is economical and of sound engineering practices. ***Prerequisite: Students are required to have a minimum of a 2.0 grade point average in the Fabrication Processes course in order to enroll.***
- 657** **ARCHITECTURAL DRAFTING** (10th – 12th grade) 1st or 2nd semester .50 credit
In this course students will learn the fundamentals of architectural drafting using CAD. The students will use a current version of AutoDesk Architectural Desktop to develop drawings and solutions for a variety of residential projects. Course content will include room and area planning, floor plans, sections, elevations, schedules, and key terminology. The students will learn how architectural drafting implicates specifications for building construction, site selections, footings, foundations, framing, insulation, and interior, and exterior finishes. ***Prerequisite: Students are required to have a minimum of a 2.0 grade point average in the CADD course in order to enroll.***
- 658** **PARAMETRIC MODELING** (Inventor) (10th – 12th grade) 1st or 2nd semester .50 credit
This advanced study of CADD will focus on drafting and designing with Autodesk Inventor to create complex designs, advanced solid models, assembly presentations, and assembled drawings. The students will gain an understanding of parametric manipulation of models as they develop a portfolio that documents their drafting competencies. An emphasis on choosing appropriate materials for design(s) and design solutions will be stressed. Students will have the opportunity to export their drawings to various prototyping and manufacturing machines in order to validate solutions. ***Prerequisite: Students are required to have a minimum of a 2.0 grade point average in the CADD course in order to enroll.***
- 667** **ARCHITECTURAL DESIGN** (10th – 12th grade) 1ST or 2nd semester .50 credit
This course is a continuation of Architectural drafting. Students will practice pre-design exercises as they use their drafting skill set to design a full sheet set of plans for a single-family residence. The project will contain the following drawings: foundation, floor plans, interior elevations, exterior elevations, window and door schedules, sections, framing plans, electrical plans and a plot plan. A current version of Architectural Desktop will be the primary drafting program used, but other architectural drafting programs such as Revit will be explored during the progression of this course. ***Prerequisite: Students are required to have a minimum of a 2.0 grade point average in the CADD course and the Drafting Design course in order to enroll.***
- 668** **ENGINEERING DRAWING** (Inventor) (10th – 12th grade) 1st or 2nd semester .50 credit

In this course, students will use Autodesk Inventor to design solutions to provided situations while practicing problem solving models. Students will learn reverse engineering by creating modifications to various products, precision parts, and detailed assembly models. Students will discover how to apply engineering design, scientific principles, and engineering analysis to solve structured and unstructured problems using software based and 3D printed models. Individual and teamwork will be emphasized throughout the course. **Prerequisite: Students are required to have a minimum of a 2.0 grade point average in the CADD course and the Parametric Modeling course in order to enroll.**

- 669** **INDEPENDENT STUDY / R&D** (senior career seminar) (11th – 12th grades) 1st or 2nd semester .50 credit
This course is designed for Junior and Senior students who have successfully mastered concepts pertaining to their discipline of interest. Students will independently develop and complete projects under the supervision of an instructor utilizing the current technology education resources such as tools, machines, AutoCad, Architectural desktop, Revit, Inventor, and RobotC / Cortex. This is a self guided, independent study course for motivated students. Each student will be required to maintain a journal, and must have mastered technical concepts from previous aligned courses. **Prerequisite: Students are required to have a minimum of a 2.0 grade point average in the final level of the technology education area they choose to study independently in order to enroll**

WORLD LANGUAGES

The curriculum of all languages reflects the national standard in communication, cultures, connections, comparisons and communities. All courses within the world languages department are elective course offerings open to all students. Since foreign language learning is developmental, it is necessary that students have an average of 2.0 to proceed to the next level. Students with less than a 2.0 average may repeat the same level for high school credit. However, a cumulative total of only one credit will be awarded for successful completion of any repeated courses. **Please note: If a university has a requirement of three years of a foreign language, this refers to students passing three levels of the same foreign language.**

FRENCH

- 130** **FRENCH I** (9th – 12th grades) full year 1.00 Credit
87130 OL FRENCH I
French I emphasizes the development of all four language skills by using the sound system along with reading and writing. By listening, imitating, and repeating oral and written materials, students become familiar with basic French phrases, sounds, grammatical structures and culture. Students are then asked to synthesize the structure and vocabulary in activities that stress language and communication.
- 131** **FRENCH II** (9th – 12th grades) full year 1.00 credit
87131 OL FRENCH II
The major goals of this course are the development of oral proficiency, reading skill, writing skill, cultural awareness, and continuing formal grammar study. Each lesson includes reading or dialogue, cultural notes, and activities that stimulate conversation and speaking abilities. The student workbook provides exercises to develop these four basic skills. Recorded exercises provide practice in listening and speaking skills.
- 132** **FRENCH III** (10th – 12th grades) full year 1.00 credit
The goals of this course are to continue development in oral proficiency, reading and writing skills, as well as formal grammar study and cultural awareness. The text and student workbook provide practice activities. The year culminates with the study of two full-length films. Students in French III are eligible to participate in the French Exchange program, which includes both hosting a French high school student for two weeks and traveling to Vannes and Paris, France for two weeks.
- 133** **CHS FRENCH IV** (11th – 12th grades) full year 1.00 credit
This course continues to provide extensive practice in all of the basic language skills. Many opportunities are provided for language development through projects, films and authentic texts. An intermediate-level French classic novel is studied. Students in French IV are eligible to participate in the French Exchange program, which includes both hosting a French high school student for two weeks and traveling to Vannes and Paris, France for two weeks. **Students taking this course will be eligible to earn WCCC credit through participation in the IASD College in High School Program.**

Dual Credit Option(s)

Dual Credit Institution	Dual Credit Type	Dual Credit Institution Course Name	Dual Credit Institution Course Number	Dual Credit Institution Prerequisites	Dual Credit Term	IHS Credit Equivalency
WCCS	CHS	Beginning French I	FRN 155		Year	1.0

134 **FRENCH V** (12th Grade) full year 1.00 credit
 This course continues to provide extensive practice in all of the basic language skills. Many opportunities are provided for language development through projects, films, frequent oral presentations of current events and authentic texts. Two intermediate-level French classic novels are studied. Students in French V are eligible to participate in the French Exchange program, which includes both hosting a French high school student for two weeks and traveling to Vannes and Paris, France for two weeks.

GERMAN

135 **GERMAN I** (9th – 12th grades) full year 1.00 credit
 German I emphasizes the development of all four language skills: listening, speaking, reading, and writing. By listening, imitating, and repeating oral and written materials, students become familiar with basic German phrases, sounds, grammatical structures and culture. Students will learn to tell about themselves and their friends, their age, what they look like, where they're from, their family, classes and teachers, favorite food, pastimes, and sports and games.

136 **GERMAN II** (9th – 12th grades) full year 1.00 credit
 German II continues to build on the foundation established in German I with the aim of improving the skills acquired at the beginning level. The emphasis of this course is to improve the student's proficiency in all the communication skills. New vocabulary and more complex grammar principles are added.

137 **GERMAN III** (10th – 12th grades) full year 1.00 credit
 German III continues to provide the opportunity for students to practice and improve their skills. Students are encouraged to use the target language as much as possible during class. Topics of interest to teenagers are developed through a variety of activities, which include audio and video components. Students may also be able to participate in an exchange program to Germany by either going to Germany and/or hosting a German Exchange student.

138 **GERMAN IV** (11th – 12th grades) full year 1.00 credit
 The major emphasis of the course is placed on continual improvement of skills in reading, writing, speaking and listening. In addition to grammar and vocabulary exercises, readings of various difficulties, projects and feature length films are included. Students can express their own ideas. Students may be given the opportunity to participate in an exchange program to Germany, which provides additional reinforcement of learned language skills.

139 **GERMAN V** (11th - 12th grades) full year 1.00 credit
 Emphasis is placed on fine-tuning the basic language skills acquired in the first four years. Students develop greater linguistic proficiency, expand to a higher level of vocabulary, think critically and take risks when expressing themselves in the target language. Students may be given the opportunity to participate in an exchange program to Germany

SPANISH

145 **SPANISH I** (9th – 12th grades) full year 1.00 credit

87145 OL SPANISH I

Students will learn to tell about themselves and their friends, their age, what they look like, where they're from, their family, classes and teachers, favorite food, pastimes, and sports and games. They will tell time, talk on the phone, order a meal, and write a letter. Authentic materials such as newspapers, videos, magazines, and online resources will supplement the text and workbooks. Much time is devoted to listening comprehension and speaking, as well as reading and writing.

146 **SPANISH II** (9th – 12th grades) full year 1.00 credit

87146 OL SPANISH II

This course will continue to stress the skills acquired in Spanish I. Students will learn about topics that will help them prepare to travel in the Spanish-speaking world, such as navigating through an airport, buying train tickets, and reserving hotels. Students will enter into a more extensive study of grammar. Authentic materials such as newspapers, videos, magazines, and online resources will supplement the text and workbooks.

147 **SPANISH III** (9th – 12th grades) full year 1.00 credit

87147 OL SPANISH III

The major goals in the third level are to continue to build skills in listening, speaking, reading, and writing, as students amplify their knowledge of Hispanic culture. Students will read about and discuss topics of daily life and find similarities and differences between Hispanic and American cultures. Students may participate in the study abroad trip.

148 **CHS SPANISH IV** (9th – 12th grades) full year 1.00 credit

The class activities at level IV place great emphasis on meaningful oral communication in Spanish. Besides improving their conversational skills, students will be exposed to all grammar tenses while they strive to polish their grammar. They will write a number of compositions and read from authentic Spanish sources. The focus of each unit is on a specific Spanish-speaking country or group of countries. Students may participate in the study abroad trip. **Students taking this course will be eligible to earn WCCC credit through participation in the IASD College in High School Program.**

Dual Credit Option(s)

Dual Credit	Dual	Dual Credit Institution	Dual Credit	Dual Credit	Dual Credit	IHS Credit
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Institution	Credit Type	Course Name	Institution Course Number	Institution Prerequisites	Term	Equivalency
WCCS	CHS	Beginning Spanish I	SPA 155		Year	1.0

150 **AP SPANISH** (12th grade) full year/weighted 1.00 credit

This course is for selected twelfth grade students and fulfills one elective course requirement. This is a college-level course designed to prepare students to place into Spanish courses upon their arrival at a university of his/her choice. All members of the class are expected to take the Advanced Placement exam given in May at their own expense (approximate \$96.00 fee). There will be no final examination requirement for this course. The AP Spanish Language and Culture Course is a rigorous course taught almost exclusively in Spanish that requires students to improve their proficiency across the three modes of communication (the interpersonal, interpretive and presentational). The course focuses on the integration of authentic resources including online print, audio, and audiovisual resources, as well as traditional print resources that include literature, essays, and magazine and newspaper articles with the goal of providing a rich, diverse learning experience. Students communicate using rich, advanced vocabulary and linguistic structures as they build proficiency in all modes of communication toward the pre-advanced level. The following are required in order to enroll in this course: -One teacher recommendation, either from the Spanish III or IV instructor -Successful completion of the previous year's required Spanish IV course (minimum 3.0 recommended average)

IDEAL DIGITAL EDUCATION ACADEMY FOR LEARNING

IDEAL provides an "in-house" online option for Indiana Area School District students. Whether a student wishes to pursue a single online course or to take all courses online, IDEAL offers an array of options designed to meet students' needs. The IDEAL program aims to provide students with the flexibility and convenience of a quality virtual education, in addition to the services traditionally offered in a school building, and to do so in a way that affords students "the best of both worlds."

All students who enroll in coursework through the IDEAL program are encouraged to make use of the technological and human resources available in the high school's recently renovated online "learning lab." Any building-based student who chooses to enroll in IDEAL courses will be scheduled for an "Online Learning" class period in the IDEAL Lab. During the student's Online Learning period, the student will be expected to work on his/her online course. If a student needs assistance with online coursework, both a subject teacher and the IDEAL program's paraprofessional are present in the IDEAL Lab (throughout the school day) to answer students' questions. All online course instructors/facilitators are employed in Indiana Area School District schools, and as such are available to meet "in person" with students and to provide an array of personalized support services.

All students who are enrolled in online courses are afforded the same curricular and extra-curricular opportunities as are students enrolled in building-based classes. Students who are required to take state-mandated Keystone Examinations and other standardized examinations can take those exams with their virtual and building-based peers and do so in a school environment with which they are familiar. Students who meet school district-mandated eligibility requirements also have the opportunity to enroll in coursework at Indiana County Technology Center (ICTC), Indiana University of Pennsylvania (IUP), and Westmoreland County Community College.

The IDEAL program's goal is to not only offer students the education they need to prepare for life in the twenty-first century, but to do so on an individualized, personalized level. *Courses that are available in an online format are denoted with a separate course number and the prefix "OL" precedes the course name.

**Indiana Area Senior High School
Scheduling Information**

Indiana Area School District College in High School Course:

The Indiana Area Senior High School is pleased to bring to the parents/guardians and students the College in High School (CHS) program. Students are provided an opportunity to take courses in the Indiana Area School District while earning college credit from either Westmoreland County Community College or Mount Aloysius at a greatly reduced cost per credit. Earned college credits may be transferable to many colleges and universities. Please take a minute to peruse this site to get up-to-date information about this great opportunity!

Eligible Courses and Partnerships

Indiana Area Senior High School is working in conjunction with Mount Aloysius (MA) and Westmoreland County Community College (WCCC) to offer college credit for pre-qualified high school courses at a greatly reduced tuition rate. Your child may qualify if they are enrolled in the courses indicated below.

The following Indiana Area Senior High School courses are eligible for CHS credit at the colleges indicated:

- Precalculus and Honors Precalculus (MA & WCCC)
- Statistics (WCCC)
- Chemistry and Honors Chemistry (MA & WCCC)
- Creative Writing (WCCC)
- AP Language and Composition (WCCC)
- Public Speaking (WCCC)
- French IV (WCCC)
- Spanish IV (WCCC)
- Accounting II (WCCC & MA)
- Anthropology (WCCC)
- AP Government & Politics (WCCC)
- Economics (WCCC)
- Psychology (WCCC)
- CADD (WCCC)

Students interested in being considered for CHS credit must meet certain eligibility criteria. Mount Aloysius and Westmoreland County Community College have similar criteria so please consider carefully which college best fits you and your child's needs.

If your son/daughter meets the criteria and is interested, please talk with him/her about the benefits of earning early college credit for courses taken in the Indiana Area Senior High School with IASHS instructors

Mt. Aloysius Course Offerings and IHS Teachers

IASD Instructors	IASD Courses	MT. Aloysius Course	Mt. Aloysius Course Number	Mt. Aloysius Instructor
Mrs. Traci Sexton	Precalculus	Precalculus	CM 113	TBD

Mr. Steven Cochran	Honors Precalculus	Precalculus	CM 113	TBD
Mrs. Marisa Huntsman Ms. Heather Walton	Chemistry	Chemistry	CH 101	TBD
Mrs. Marisa Huntsman	Honors Chemistry	Chemistry	CH 101	TBD
Mrs. Pam Distefano	Accounting II	Principles of Accounting I	ACCT 101	TBD

- Must be a 10th, 11th, or 12th grader
- Must earn a "C" or better in the course
- Must maintain a 3.0-grade point average
- Must attend school regularly

WCCC Course Offerings and IHS Teachers

IASD Instructors	IASD Courses	WCCC Course	WCCC Course Number	WCCC Instructor
Mrs. Traci Sexton	Precalculus	College Algebra and/or Precalculus	MTH 157 and/or MTH 158	TBD
Mr. Steven Cochran	Honors Precalculus	College Algebra and/or Precalculus	MTH 157 and/or MTH 158	TBD
Dr. Layden	Statistics	Introduction to Statistics	MTH 160	TBD
Ms. Heather Walton Mrs. Marisa Huntsman	Chemistry	Introductory Concepts in Chem I	CHM 107	TBD
Mrs. Marisa Huntsman	Honors Chemistry	Introductory Concepts in Chem I	CHM 107	TBD
Mr. Mike Farina	AP Language and Comp	College Writing	ENG 161	TBD
Mrs. Julie Steve Mr. Mike Farina	Creative Writing	Creative Writing	ENG 165	TBD
Mrs. Leah Lyons	Public Speaking	Effective Speech	SPC 155	TBD
Mr. James Dykun	French IV	Beginning French I	FRN 155	TBD
Mr. Brian Henninger	Spanish IV	Beginning Spanish I	SPA 155	TBD
Mr. Eric Brocious	Accounting 2	Accounting I	ACC 155	TBD
Mr William Doody	AP Government and Politics	AmericanNational Government	POL 155	TBD
Mr. William Doody	Anthropology	Cultural Anthropology	SOC 255	TBD
Mr. Michael Tshudy	Economics	Elements of Economics	ECN 158	TBD
Mr. William Doody	Psychology	General Psychology	PDY 160	TBD
Mr. Keaton Stants Mr. Mark Rend	CADD	Technical Drafting I	DFT 105	TBD

- Must be an 11th or 12th grader
- Must earn a "C" or better in the course
- Must maintain a 2.5-grade point average or higher
- Must be on track for graduation

Must have scored proficient or advanced on Keystone Math or English assessment

SENIOR CAREER SEMINAR

534

SENIOR CAREER SEMINAR (12th grade)

1st or 2nd semester

1.50 credit

The Senior Career Seminar is designed for students looking for practical experience in preparation for careers or educational experiences. Seminar students can be placed in an elementary, secondary school classroom or business/workforce area for the purpose of preparation for post high school experiences. The students will attend the seminar a minimum of three periods each day for a semester or full school year. Participants will explore specific tasks which will vary day to day as the needs of the placement dictate. Additionally, students will meet periodically with a teacher/supervisor to reflect on learning and developing a portfolio. Prospective students must apply for acceptance into the program via an application and letters of intent that demonstrates dedication, and/or teacher recommendation. Students who are enrolled in this program will remain at the Senior High School on "off days" (days the students are not scheduled to report to their placement). They will use this time to complete other requirements of the seminar. Examples of requirements to be determined by the supervising teacher include, but are not limited to: independent study, college and career exploration, online learning, professional readings and responses, journal and portfolio completion.

DUAL CREDIT ENROLLMENT

DUAL CREDIT ENROLLMENT:

Indiana Area Senior High School participates in a Dual Credit program with Indiana University of Pennsylvania, Mt. Aloysius, and Westmoreland County Community Colleges. Students who meet specific requirements can attend both the senior high school and a college/university during their junior or senior year. In order to be considered for the Dual Credit program, please consider the following recommendations: juniors and seniors should possess a minimum of a 3.0 cumulative grade point average, and an excellent high school attendance and disciplinary history. Specific information and registration materials are located in the IHS School Counseling office. Deadline for registration is June 1 for the fall semester and December 1 for the spring semester

IUP Course Offerings

IASD Course	IUP Course	IUP Course Number	Dual Credit Prerequisites	Dual Credit term	Credit Equivalency
Adv. Placement English Lit and Comp	Humanities Literature*	ENGL 121	ENGL 101	Semester	1.0
Creative Writing	Creative Writing*	ENGL 221	ENGL 121	Semester	0.5
Public Speaking	Public Speaking*	ENGL 310	ENGL 101	Semester	0.5
Drama I	Intro to Theatre	THTR 101		Semester	0.5
French I	Basic French*	FRNC 101	Foreign Language Placement Test	Semester	1.0
French II	Basic French II*	FRNC 102	FRNC 101	Semester	1.0
Advanced Placement US History	Explorations in US History	HIST 196		Semester	1.0
AP Macroeconomics	Principles of Macroeconomics	ECON 121		Semester	1.0
Advanced Placement US Government and Politics	American Government	PLSC 111		Semester	1.0
Introduction to Psychology	General Psychology	PSYC 101		Semester	0.5
Human Geography	World Geography: Global Context	GEOG 104		Semester	0.5

IASD Course	IUP Course	IUP Course Number	Dual Credit Prerequisites	Dual Credit term	Credit Equivalency
World Religion	World Religions	RLST 110		Semester	0.5
intro to Sociology	Intro to Sociology	SOC 151		Semester	0.5
Forensic Science	Intro to Forensic Biology	BIOL 107		Semester	0.5
AP Physics I	Physics I Lecture AND Lab	PHYS 111		Semester	1.2
General Physics	Energy and Our Environment	PHYS 101		Semester	1.0
General Physics	The Physics of Light and Sound	PHYS 105		Semester	1.0
Astronomy	Exploring the Universe-lecture	GEOS 105		Semester	0.5
Astronomy	Exploring The Universe-lab	GEOS 106		Semester	0.5
Intro to Anthropology	Contemporary Anthro	ANTH 110		Semester	0.5
Intro to Anthropology	Cultural Anthropology	ANTH 211		Semester	0.5
Algebra II	College Algebra*	MATH 105	Math Placement Exam	Semester	1.0
OL Precalculus	Elementary Functions	MATH 110*		Semester	1.0
Statistics	Prob and Stats	MATH 217		Semester	1.0
Computer Applications	Computer Literacy	COSC 101		Semester	0.5
Accounting II	Accounting Principles I	ACCT 201		Semester	1.0
International Business	Business Success Seminar	BUS 101		Semester	0.5
Personal Finance	Financial Wellness	FIN 143		Semester	0.5
Computer Programming & Coding II	Problem Solving and Struct Prog	COSC 110		Semester	0.5
Explorations in Computer Science	Fundamentals of Computer Science	COSC 105		Semester	0.5
Child development and preschool	Child Development	CDFR 218		Semester	0.5
Digital Media Production I	Beginning Photography*	COMM 271	COMM 101 or JRNL 105	Semester	1.0
Visual Arts/Cont Pottery	Ceramics	ART 214		Semester	0.5
Personal Fitness	Nutritional Wellness	FDNT 143		Semester	0.5
Personal Fitness	Health and Wellbeing	KHSS 143		Semester	0.5
Anatomy & Physiology II	Human Anatomy	BIOL 150 - 4 credits with Lab		Semester	0.5
Academic Support English	English Composition*Requires placement testing	ENGL 101		Semester	1.0
OL Geology	The Dynamic Earth	GEOS 101		Semester	0.5
OL Geology	The Dynamic Earth Lab	GEOS 102		Semester	0.5

IASD Course	IUP Course	IUP Course Number	Dual Credit Prerequisites	Dual Credit term	Credit Equivalency
Drama I	Intro to Theatre: Teamwork	THTR 161		Semester	0.5
Journalism (Newspaper)	Layout, Production, and Design*	JRNL 327	COMM 101 or JRNL 105	Semester	1.0
German I-III	Elementary German I	German 101	Foreign Language Placement Testing	Semester	1.0
German IV-V	Elementary German II	German 102		Semester	1.0
Digital Media Production II & III	Intro to Comm Media and Culture	COMM 101		Semester	1.0
Anatomy and Physiology	Human Anatomy	BIOL 150		Semester	0.5
English	Big IdeaI: Ancient to Enlightenment	ARHU 122		Semester	1.0
English	Big IdeaI II: Enlightenment to Present	ARHU 123		Semester	1.0
Elective	Exploring the Universe Lab	GEOS 106 (4 credits)		Semester	
Elective	Journalism and the Mass Media	JRNL 105		Semester	0.5
Elective	Figure Drawing	ART 111		Semester	0.5
Elective	3 Dimension design /Color and 2-D Design	ART 113		Semester	0.5
Elective	World Archaeology	ANTH 213		Semester	0.5
Elective	Intro to Art	ARHI 101		Semester	0.5
Elective	Color and Two-Dimensional Design	ART 114		Semester	0.5
Elective	Media Wellness	COMM 143		Semester	0.5
Elective	Cyber Wellness	COSC 143		Semester	0.5
Elective	Crime and Justice Systems	CRIM 101		Semester	0.5
Elective	Intro to Dance	DANC 102		Semester	0.5
Elective	Basic Economics	ECON 101		Semester	0.5
Elective	Financial Wellness	ECON 143		Semester	0.5
Elective	Cultural Studies of Dress and Appearance	FSMR 125		Semester	0.5
Elective	Environment and Society	GEOG 101		Semester	0.5
Elective	Geography of the United States and Canada	GEOG 102		Semester	0.5
Elective	Oceans and Atmospheres	GEOS 103		Semester	0.5
Elective	Ocean and Atmospheres Lab	GEOS 104 - Lecture and Lab		Semester	0.5
Elective	Geology of National Parks	GEOS 150		Semester	0.5
Elective	Geology of Climate Change	GEOS 155		Semester	0.5

IASD Course	IUP Course	IUP Course Number	Dual Credit Prerequisites	Dual Credit term	Credit Equivalency
Elective	Explorations in U.S. History	HIST 196		Semester	0.5
Elective	Explorations in Global History	HIST 198		Semester	0.5
Elective	Explorations in European History	HIST197		Semester	0.5
Elective	Intro to Music	MUHI 101		Semester	0.5
Elective	Healthy People-Promoting Wellness	NURS 143		Semester	0.5
Elective	Intro to Philosophy	PHIL 100		Semester	0.5
Elective	Critical Thinking	PHIL 101		Semester	0.5
Elective	Contemporary Moral Issues	PHIL 122		Semester	0.5
Elective	Intro to Biomedical Ethics	PHIL 130		Semester	0.5
Elective	World Politics	PLSC 101		Semester	0.5
Elective	Global Cities: Planning and Development	RGPL 103		Semester	0.5
Elective	Intro to Religion	RLST 100		Semester	0.5
Elective	Foundations of Soc; Soc Relations in Groups & Org	SOC 161		Semester	0.5
Elective	Contemporary Social Problems	SOC 231		Semester	0.5

Indiana County Technology Center

Program Cluster Areas

AUTOMOTIVE TECHNOLOGIES

Automotive Technology
Collision Repair Technology

CONSTRUCTION & BUILDING TRADES

Carpentry
Heating Ventilation and Air Conditioning
Masonry

ENGINEERING TECHNOLOGIES

Machining Technology
Welding Technology

INFORMATION TECHNOLOGIES

Digital Communications
Graphics and Electronic Media
Information Technology Services

PUBLIC SERVICES

Cosmetology
Culinary Arts
Health Occupations Technology



SOAR (Students Occupationally & Academically Ready) programs prepare today's students for High Priority Occupations: careers that are in high demand for employers, have higher skill needs, and are most likely to provide family sustaining wages. Please visit the ICTC website to link directly to the SOAR website for more details on how your ICTC experience can earn college credit.

IMPORTANT ICTC FACTS

The Indiana County Technology Center is a regional technology center dedicated to providing students with industry-certified technical and academic-enriched career programs. The school provides state-of-the-art equipment within a safe environment.

Through integrated technical and academic curricula, students learn theory and skills providing pathways to post-secondary education and/or employment in high growth and high-demand careers. ICTC graduates are college and career ready.

The curriculum written for each technical program area at the ICTC has been properly aligned with PA Academic Standards in the following four (4) areas: reading/writing, mathematics, science, and career education and work standards.

Learning leadership skills, applying problem-solving skills, developing a positive attitude, and being a team player are some of the tenets of a positive work ethic regularly demonstrated by our staff for our students to emulate.

Students may elect to schedule a one, two or three year experience in any program at the ICTC.

ARTICULATION AGREEMENTS:

ICTC students have the opportunity to gain Advanced Standing at the post-secondary level. Students who complete required competencies in high school will be granted credit through an Articulation Agreement with an approved post-secondary school. Articulation Agreements can save students time and money while earning college credit for completing the expected academic rigor in high school. PA Department of Education (PDE) currently sponsors the SOAR (Students Occupationally & Academically Ready) Program. Information about statewide articulation agreements by individual Program Area can be located by connecting to the following web address: <http://www.collegetransfer.net/Search/PABureauofCTESOARPrograms/tabid/3381/Default.aspx>

DUAL ENROLLMENT:

Pennsylvania Highlands Community College offers the Accelerated College Education (ACE) program at the ICTC. College courses are offered to ICTC students during high school at a reduced tuition rate. Dual Enrollment enables students to apply college credits toward earning an Associate's Degree at Pennsylvania Highlands Community College or transfer to another college of their choice. Upon Graduation, students who completed course work through the Dual Enrollment program not only receive a Diploma, but they also receive a college transcript. Specific information related to Articulation Agreements and any Dual Enrollment Agreements can be found on file in the Student Services Department. Total articulated credits may vary depending on ICTC Program Agreements and/or individual student achievement.

ADULT EDUCATION:

Adult students may attend full-time classes from 8:00 a.m. to 1:30 p.m. Monday through Thursday, if space permits. Federal Financial Aid is available for students who qualify.

MISSION

The mission of the Indiana County Technology Center, an innovative regional career development and technology center, in partnership with our member districts and the community is to provide all learners a safe, caring environment that includes the integration of a challenging technical and academic education with an emphasis on the development of skills which provides pathways to further education and employment in an ever-changing world.

SHARED VALUES

- Each individual has worth and dignity
- Each individual will develop skills for life-long learning
- Educational partners must collaborate to maximize student learning
- Everyone deserves a caring, safe learning environment
- Community involvement is essential
- Technical education is valuable and essential to compete in a global economy
- There are opportunities for success for all learners
- Knowledge is empowerment
- All individuals are provided the opportunity to reach their full potential

GOALS

1. Advocate the critical role of career and technical education for quality education and workforce development.
2. Collaborate and partner with other education/community stakeholders to provide enhanced post-secondary opportunities for student success.

3. Expand and develop quality adult education programs.
4. Increase student achievement through the integration of academic and occupational standards.
5. Integrate technology into the instructional practices and operations of the ICTC.
6. Utilize all resources of the school in an artful manner.

SOAR (Students Occupationally & Academically Ready) programs prepare today's students for High Priority Occupations: careers that are in high demand for employers, have higher skill needs, and are most likely to provide family sustaining wages. Please visit the ICTC website to link directly to the SOAR website for more details on how your ICTC experience can earn college credit.

COLLISION REPAIR TECHNOLOGY

(Autobody/Collision and Repair Technology/Technician)

The Collision Repair Technology (CRT) program is designed to instruct students in the development of eye-hand coordination skills and the operation of power and air operated equipment associated with tools and procedures used in the repair of damaged automotive vehicles. Students who are creative, meticulous, proud of their work and fascinated with automobiles will enjoy seeing their reflection in the finish of a CRT project. CRT students learn to apply automotive finishes in a high quality paint booth. Students are taught cost estimating, frame straightening, Metal-Inert-Gas (MIG) welding, reshaping metal parts and replacing body component parts. Instruction and "hands on" practice is available to the students in the areas of: MIG welding, plasma cutting, automotive panel replacement, frame and unibody diagnosis, measuring and repair, computerized estimating, automotive paint systems, overall paint and blending procedures. Glass procedures with urethane, gasket sealed glass, fixed and movable replacement procedures.

At the Indiana County Technology Center (ICTC), the CRT program is primarily concerned with preparing students to enter the field of collision repair. Students have the opportunity to learn automotive skills and knowledge, as well as reading, writing, language, math and study skills needed for employment in the field. Qualified second year students have the opportunity to earn a Certificate of Completion in refinishing systems from the PPG Research Center. Senior students have the opportunity to receive a PPG Blue Level Industry Certification after successfully completing a written and performance assessment.

Program Framework

Body Shop Safety Practices
 Detailing
 Fundamentals of Collision Repair
 MIG Welding/Resistance Spot Welding
 Automobile Construction
 Exterior Panel Repair and Replacement
 Refinishing
 Estimating/Damage Analysis
 Structural Repair
 Plasma Torch Cutting

Academic Requirements

An academic review of each interested student's grades, behavioral, and attendance performance is conducted prior to enrollment.

Career Opportunities

Collision Repair Technician
 Automobile Detailer
 Collision Estimator
 Refinish Technician Assistant

CULINARY ARTS

(Institutional Food Workers)

Culinary Arts (CART) offers a wide range of career opportunities for those who enjoy preparing exciting cuisines and have an eye toward business ventures. This comprehensive program prepares students for positions in the rapidly-growing food service industry.

The students' education is enhanced by participating in various catering projects and the operation of our full-service restaurant ---- these hands-on learning experiences help students refine table service and dining room management techniques. Career opportunities in restaurants, resorts, country clubs, hotels and motels as well as on cruise ships and airlines are abundant.

The program is designed to allow interested students to bring together many areas of creative graphic design and production technologies. Skilled graphic artists have a creative flair required to produce eye-catching publications as well as the talent and confidence to use up-to-date technology to output their creations.

Graphics & Electronic Media students may obtain the following certifications:

- Adobe Certified Professional - Photoshop
- Adobe Certified Professional - Illustrator
- Adobe Certified Professional - InDesign

Program Framework

Orientation	Design, Layout and Production
Typography	Safety
Drawing and Illustration	Digital Photography
Professional Practices	Adobe InDesign CC
Color Theory & Application	Adobe Photoshop CC
Digital Imaging	Adobe Illustrator CC

Academic Requirements

An academic review of each interested student's grades, behavioral and attendance performance is conducted prior to enrollment.

Career Opportunities

Graphic Designer
Desktop Publisher

WELDING TECHNOLOGY

(Welding Technology/Welder)

Welding has evolved into a sophisticated science and technology. Skills developed at the Indiana County Technology Center's (ICTC) Welding Technology (WT) program are immediately transferable to either a professional career as a welder or as a student enrolled at a community/technical college, university, or other post-secondary institution. Additionally, the curriculum provides excellent preparation for those whose career goals include becoming a welding, mechanical or metallurgical engineer. The ideal candidate for this field should have good mechanical aptitude, eye-hand coordination, imagination and excellent visualization skills.

Students have the opportunity to become a certified welder in accordance with the American Welding Society's D1.1 Structural Steel Code. Qualified students have the opportunity to earn an Industry Certification endorsed by the American Welding Society (AWS). The AWS certification is a professional certificate that is recognized in the welding industry across the country.

Program Framework

Basic Safe Work Practices
Safe Fabrication Equipment Operations
Oxy-fuel Cutting
Oxy-fuel Welding/Brazing
Shielded Metal Arc Welding
Gas Metal Arc Welding (MIG)
Gas Tungsten Arc Welding (Heli-Arc/TIG)
Metallurgy (Study of Metals)
Testing & Welding Inspection
Blueprint Reading

Academic Requirements

An academic review of each interested student's grades, behavioral and attendance performance is conducted prior to enrollment.

Career Opportunities

Arc Welder Apprentice
Combination Welder Apprentice
Welder Fitter Apprentice
Welding Engine
Experimental Welder (R&D)
Weld Inspector
Welding Technician

INFORMATION TECHNOLOGY SERVICES

(Computer Systems Networking and Telecommunications)

The Information Technology Services (ITS) program at the ICTC is designed to provide students with training for relevant certifications in the Information Technology (IT) field. During the course of the ITS curriculum, students will have the opportunity to enroll in up to 10 college credits through Pennsylvania Highlands Community College. Employers welcome potential employees who have professional credentials or degrees. The ITS program helps students gain the practical experience and knowledge needed to obtain CompTIA certifications. Students have the opportunity to obtain a certification through CompTIA, which includes A+, Network+, and Security+.

A+ shows a person's proficiency in computer hardware and software upgrades, installation and trouble-shooting skills. Topics include: PC Components, Introduction to Networking, Laptops and Portable Devices, Security, Operating Systems Safety and Environmental Issues, Printers and Scanners, Communication and Professionalism.

NETWORK+

Network+ shows a person's proficiency with basic networking knowledge and skills. Topics include: Networking Fundamentals, Fault Tolerance and Disaster Planning, Internetworking Fundamentals, Recovery, TCP/IP Fundamentals, Troubleshooting and Network Operating Systems.

SERVER+

Server+ shows a person's proficiency with basic server installation, configuration and management and troubleshooting skills. Topics include: Server Hardware, Disaster Planning and Data Recovery, Performance Monitoring, Installation and Configuration of Network Operating Systems, Troubleshooting.

SECURITY+

Security+ shows a person's proficiency with basic computer and network security issues. Topics include: Systems Security, Assessments and Audits, Network Infrastructure, Cryptography and Access Control, Organizational Security.

Academic Requirements

An academic review of each interested student's grades, behavioral and attendance performance is conducted prior to enrollment.

Career Opportunities

Basic Network Technician (LAN)	Security Specialist
Advanced PC Technician	Computer/Network Systems Administrator/Manager
System/Network Analyst	A+ PC Technician (Bench/Field, Help Desk)
Computer Systems Engineer	Computer Programmer

DIGITAL COMMUNICATIONS

(Communications Technologies)

The Digital Communications program is a dynamic and continuously evolving industry that employs professionals with a wide range of multimedia production skills including digital photography, audio and video production, digital marketing, and web design. Students enrolled in the Digital Communications program will gain experience and skills in these areas using industry standard equipment and software. Opportunities for students to extend classroom skills into real world projects exist throughout the year through live work and competitive opportunities. Students will gain knowledge and skills in a wide variety of areas including computer applications, design and layout, multimedia, video and audio production, and photography, just to name a few.

Digital Communications students have the opportunity to receive the following certifications:

- Adobe Certified Associate-Visual Communications Using Photoshop
- Adobe Certified Associate-Visual Communications Using Premiere

Program Framework

Web Media
Photography
Video, Cinematography and Audio Production
Media Composition
Graphic Design
Professional Practices
Computer Literacy

Academic Requirements

An academic review of each interested student's grades, behavioral and attendance performance is conducted prior to enrollment.

Web Page Designer
Video Editor
Producer/Director
Multimedia Artist/Animator
Camera Operator
Marketing
Public Relations

Career Opportunities

MACHINING TECHNOLOGY

(Machine Tool Technology/Machinist)

Machining Technology (MT) is designed to provide each student with the latest technological skills needed for entry in the metalworking occupations. Students have the opportunity to operate state-of-the-art equipment, such as the Computer Numeric Controlled (CNC) machine. They also gain experience with the hands-on operation of standard machine tools used in the industry such as: drill presses, metal saws, lathes, milling machines and surface grinders. Related theory acquaints students with metal cutting applications, material properties, layout work, and CAD/CAM programs. The application of mathematics and blueprint reading is also emphasized throughout the course as an integral part of all completed projects and competencies.

The Indiana County Technology Center's (ICTC) MT program is a fully accredited NIMS (National Institute for Metalworking Skills) training and certification site. Students will have the opportunity to achieve NIMS Level 1 machining credentials as part of the course of study for the MT program.

Tooling U, a company of the **Society of Manufacturing Engineers (SME)**, is the leading developer of online training for manufacturing companies and educational institutions. The partnership between Tooling U and ICTC's MT program is based on a blended-learning solution, which combines online training with hands-on instruction and lab work. Tooling U delivers a portion of the knowledge online while the ICTC MT program delivers the needed skills through hands-on learning.

Program Framework

Orientation/Safety	Blue Print Reading
Performing Layout Work	CNC Programming
Part Inspection	Machining Math
Bench Work	Machining Essentials
Drill Press Operations	Metal Cutting
Grinding Machine Operations	Part Inspection
Lathes Operations	Quality
Milling Machines Operations	HAAS Lathe Control
Power Saw Operations	HAAS Mill Control
Maintaining Machines and Tools	NIMS Completion
Metallurgy	Live Work/Enrichment
Quality Control Technician	

Use of Charts & References

Academic Requirements

An academic review of each interested student's grades, behavioral and attendance performance is conducted prior to enrollment.

Career Opportunities

Machinist Apprentice
Machine Operator
CNC Technicians

COSMETOLOGY

(Cosmetology/Cosmetologist, General)

The Cosmetology field combines talent, art, science and business, leading to a choice of rewarding careers. The Indiana County Technology Center (ICTC) Cosmetology (COSMO) program offers a state-of-the-art facility meeting all licensing requirements of the Pennsylvania State Board of Cosmetology. COSMO students learn anatomy, cosmetic chemistry, bacteriology and sanitation. Students are taught the professional hair, skin, and nail procedures.

In the student-operated patron clinic, COSMO students gain practical work experience and essential communication skills as they cut, style and color the customer's hair; apply skin care treatments and makeup; perform manicures and pedicures; manage the salon including scheduling appointments, ordering supplies; stocking inventory; and selling products.

All areas of this licensed profession are taught for a successful transition to the Cosmetology field. The COSMO program prepares students for the Pennsylvania State Board of Cosmetology License exam and provides a foundation for further training in business management, education, electrolysis, advanced aesthetics and nail technology. Enrolled students will have the opportunity to earn the required 1,250 hours necessary to attain a cosmetology license.

Program Framework

Identify Principles of Cosmetology Science
Demonstrate Professional Practices
Care for Hair and Scalp
Manicuring
Perm Wave
Chemical Relaxing
Facials Treatments
Superfluous Hair Removal
Hair Cutting
Hair Coloring
Hair Styling

Academic Requirements

An academic review of each interested student's grades, behavioral and attendance performance is conducted prior to enrollment.

Career Opportunities

Cosmetologist
General and Operations Manager
Vocational Education Teacher, Post-secondary
Vocational Education Teacher, Secondary
Salon Owner
Nail Technician
Esthetician
Manufacturers Sales Representative

HEATING VENTILATION AND AIR CONDITIONING

(Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician)

The HVAC/R program will prepare students for an entry-level position as an installer, maintenance, or service technician dealing with aspects of the residential and commercial field. This career area is always growing, has great monetary potential and will always be in demand.

The students will become adept at working with specialty tools, pressure/temperature/electrical meters, metal fabricating devices, torches, refrigerants, and live HVAC/R equipment.

This program is heavily delivered with hands-on lab projects. The students will reinforce this lab work with classroom theory.

Successful HVAC students have the opportunity to earn the following four industry certifications:

- **Refrigerant Recovery Certification #608**
- **410A Safety Certification**
- **Medic First Aid, CPR, and AED**
- **OSHA 10 Certification**

Program Framework

Air Conditioning/Heat Pumps
Heating: Gas/Oil/Electric
Electricity
Electric Motors/Motor Controls
Sheet Metal Fabrication
Basic Plumbing
Indoor Air Quality
National Electric Code

Career Opportunities

Helper
Installer
Installation Foreman
Service Technician
Service Manager
HVAC Company Owner
Plumber
Estimator
Salesperson

Academic Requirements

An academic review of each interested student's grades, behavioral and attendance performance is conducted prior to enrollment

HEALTH OCCUPATIONS TECHNOLOGY

(Health/Medical Assisting Services, Other)

Students who are caring, compassionate and possess critical thinking skills should check out Health Occupations Technology (HOT). Statistics from the Pennsylvania Department of Labor & Industry indicate that occupations in health care will continue to experience the highest growth rate.

First year students complete the Health Assisting curriculum, learning the concepts and skills that they will need to progress in the program. They will also complete coursework in Medical Terminology and Abbreviations. Second year students complete a basic Anatomy & Physiology course. They also complete Medical Terminology and Abbreviations to reinforce first year learning. Students who have progressed to second year will have the opportunity to complete clinical hours in a personal care facility and simulations in the lab setting. Third year students have the opportunity to participate in Cooperative Education and obtain Personal Care Home Direct Care Staff certification through the Pennsylvania Department of Human Services. Medical terminology, abbreviations, and medical dictionary course work is interwoven throughout the third year. Clinical experiences and job shadowing are completed during the third year of the program. During the course of the Health Occupations curriculum, students will have the opportunity to enroll in up to 9 college credits through Pennsylvania Highlands Community College, and obtain three American Heart Association certifications including Basic Life Support (BLS)/CPR, First Aid, and Bloodborne Pathogens.

Program Framework

Introduction to Allied Health
Human Needs & Development
Common Chronic & Acute Conditions
Introduction to Nursing Assistant

HIPAA
Infection Control
Resident Rights
Basic Nursing Procedures

CPR/First Aid
Medical Terminology
Communication Skills
Anatomy & Physiology

Academic Requirements

An academic review of each interested student's grades, behavioral and attendance performance is conducted prior to enrollment.

*Dual Enrollment
Opportunities Available*

Career Opportunities

Nurse Assistant	Surgical Technician
Medical Assistant	Physician's Assistant
Registered Nurse	Medical Lab Technician
Massage Therapist	Respiratory Therapist
Physical/Occupational	Therapist or Assistant
Pharmacy Technician	X-Ray Technician
EMT or Paramedic	Licensed Practical Nurse



CARPENTRY

(Carpentry/Carpenter)

Opportunity for success in the carpentry field is driven by knowledge and ability, enhanced by focused education and training. Students possessing creativity, independence, motivation, pride and enthusiasm for learning may want to explore carpentry as their career.

Students receive instruction in all phases of residential carpentry beginning with design and layout and working through the final stages of interior and exterior finishing and trim installations. Students gain the entry-level foundation skills to enter either immediate employment or post-secondary training allowing them to choose from a variety of other carpentry-related fields. Carpentry-related theory and skills are taught using a competency-based instructional framework requiring students to demonstrate their ability to safely perform specific job-related tasks in order to prepare for the carpentry job market.

Rapid advancement in technology impacts carpentry through improved tools, equipment and materials available. Carpentry students will become proficient in the use of the many new techniques, tools and equipment available in today's technological society. Field trips, on-site project experiences and repeated training in primary skill areas will prepare students for the career of a lifetime.

The students may attain an Occupational Safety and Health Administration (OSHA) ten hour training course in "Construction Safety & Health" as well as a training course on a Bobcat VersaHandler Telescopic Fork Lift.

Program Framework

Safety Practices	Fasteners
Blueprints, Codes and Building Layout	Roofing
The Use and Care of Hand Tools	Windows and Doors
Siding and Decks	Emerging Technologies
The Use and Care of Portable Power Tools	Concrete Form Construction
Insulation and Wall Finish	Floor Framing
The Use and Care of Stationary Power Tools	Wall and Ceiling Framing
Interior Finish	Temporary Work Platforms
Related Wood and Wood Products	Roof Framing
Stair Framing	

Academic Requirements

An academic review of each interested student's grades, behavioral and attendance performance is conducted prior to enrollment

Career Opportunities

Carpenter
Construction Carpenter
Construction Management
Carpenter Helper

AUTOMOTIVE TECHNOLOGY

(Automobile/Automotive Mechanics Technology/Technician)

To appreciate the complexities of the automotive industry, students will learn various repair procedures to accommodate today's computer-monitored, fuel-efficient, environmentally-friendly automobiles. Specialized training will include: repair and maintenance of internal combustion engines, including ignition, cooling, fuel injection, fuel systems, computer diagnostics, and electrical systems.

Students enrolled in the Automotive Technology (AT) program enjoy the benefits of a fully comprehensive Automotive Service Excellence (ASE) certified program. The course of study, facilities, and program equipment have been evaluated by the National

Automotive Technicians Education Foundation (NATEF) and meets the ASE standards of quality for the training of automobile technicians.

Automotive Technology is a field of change. There is unlimited growth opportunity for students willing to pursue the most up-to-date training available in future automotive technologies.

Program Framework

Safe Use of Tools and Equipment
General Automotive and Engine Maintenance
Brakes
Suspension and Steering Systems
Electrical/Electronic Systems
Engine Performance
Automatic Transmission and Transaxle
Manual Drivetrain and Axles
Engine Repair
Heating and Air Conditioning

Academic Requirements

An Academic review of each interested student's grades, behavioral and attendance performance is conducted prior to enrollment.

Career Opportunities

Automobile Technician
Heavy Duty Truck technician

ICTC LEADERSHIP ORGANIZATIONS

Student Challenge Program

The Challenge Program is a student incentive program designed to build a bridge between students in high school and the business community by providing cash awards for achieving specific goals in high school. High school sophomores, juniors, and seniors are rewarded with cash prizes in the following categories: most community service, best overall Grade Point Average (GPA), best attendance, most improved GPA, and Science Technology Engineering and Mathematics (STEM).

National Technical Honor Society (NTHS)

The goal of the ICTC Chapter of the National Technical Honor Society is to honor student achievement and leadership, promote educational excellence, and enhance career opportunities. Students who maintain a 94% overall grade point average or above at the ICTC and their sending school, show leadership skills, are involved in community service activities, exhibit positive attitude and good citizenship and are recommended by their instructor are invited to be part of the ICTC NTHS.

PA Builders Association (PBA) Student Chapter

With the cooperation and support of the Indiana-Armstrong Builders Association, the students enrolled in the carpentry, heating ventilation & air conditioning, and masonry programs are eligible to become members. The goal of the membership is to maintain high technical and academic standards while exchanging information and experiences with members of the local, state and national builders organizations.

SkillsUSA

SkillsUSA is a partnership of students, teachers and industry representatives, working together to ensure America has a skilled workforce. It helps students who are preparing for careers in trade, industrial, technical and skills service occupations to excel. The various SkillsUSA activities help students develop leadership qualities through education, vocational, civic, recreational and social activities. Excellence in scholarship and craftsmanship are developed through the local, state and national SkillsUSA leadership conferences and competition.

IMPORTANT ICTC FACTS

The Indiana County Technology Center is a regional technology center dedicated to providing students with industry-certified technical and academic-enriched career programs. The school provides state-of-the-art equipment within a safe environment.

Through integrated technical and academic curricula, students learn theory and skills providing pathways to post-secondary education and/or employment in high growth and high-demand careers. ICTC graduates are college and career ready.

The curriculum written for each technical program area at the ICTC has been properly aligned with PA Academic Standards in the following four (4) areas: reading/writing, mathematics, science, and career education and work standards.

Learning leadership skills, applying problem-solving skills, developing a positive attitude, and being a team player are some of the tenets of a positive work ethic regularly demonstrated by our staff for our students to emulate.

Students may elect to schedule a one, two or three year experience in any program at the ICTC.

ARTICULATION AGREEMENTS

ICTC students have the opportunity to gain Advanced Standing at the post-secondary level. Students who complete required competencies in high school will be granted credit through an Articulation Agreement with an approved post-secondary school. Articulation Agreements can save students time and money while earning college credit for completing the expected academic rigor in high school. PA Department of Education (PDE) currently sponsors the SOAR (Students Occupationally & Academically Ready) Program. Information about statewide articulation agreements by individual Program Area can be located by connecting to the following web address:

<http://www.collegetransfer.net/Search/PABureauofCTESOARPrograms/tabid/3381/Default.aspx>

DUAL ENROLLMENT

Pennsylvania Highlands Community College offers the Accelerated College Education (ACE) program at the ICTC. College courses are offered to ICTC students during high school at a reduced tuition rate. Dual Enrollment enables students to apply college credits toward earning an Associate's Degree at Pennsylvania Highlands Community College or transfer to another college of their choice. Upon Graduation, students who completed course work through the Dual Enrollment program not only receive a Diploma, but they also receive a college transcript. Specific information related to Articulation Agreements and any Dual Enrollment Agreements can be found on file in the Student Services Department. Total articulated credits may vary depending on ICTC Program Agreements and/or individual student achievement.

ADULT EDUCATION

Adult students may attend full-time classes from 8:00 a.m. to 1:30 p.m. Monday through Thursday, if space permits. Federal Financial Aid is available for students who qualify.