

**CURRICULUM GUIDE  
AND  
GRADUATION REQUIREMENTS**



**MITCHELL HIGH SCHOOL  
MITCHELL, INDIANA  
2018-2019**

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## Mitchell High School Curriculum Guide

This guide has been prepared to inform students and parents of graduation requirements and course offerings. We encourage you to read the guide very carefully so that you can make wise selections of next year's subjects.

All students will meet in small groups and may have individual conferences with the counselors who will help them plan their various courses of study.

*We cannot permit changes on the basis that a course turns out to be too hard or too easy, or that it's not what you expected.* Schedule changes will be made only for academic reasons. Be sure you sign up for the subjects you want and need before the schedule is finalized at the close of school. This guide should help you determine what to expect. See your counselor if you have any questions. *Think carefully about your selections. Read this guide, especially the course descriptions, very carefully. Discuss your selections with your parents and ask questions of teachers and counselors.*

The principal holds the right to grant or to deny any changes he feels are in the best interest of the student.

### Graduation Requirements

#### CORE 40

English/Language Arts .....	8 credits
Mathematics .....	6 credits
2 credits.....Algebra I (can be taken in Mitchell Junior High School)	
2 credits.....Geometry	
2 credits.....Algebra II	
<i>Students must take a math or quantitative reasoning course each year in high school.</i>	
Science.....	6 credits
2 credits.....Biology I	
2 credits.....Chemistry I or Physics I or Integrated Chemistry/Physics	
2 credits.....any Core 40 science course	
Social Studies .....	6 credits
2 credits.....U.S. History	
1 credit.....U.S. Government	
1 credit.....Economics	
2 credits.....World History/Civilizations or Geography/History of the World	
Directed Electives.....	5 credits
World Languages	
Fine Arts	
Career and Technical Education (Vocational School)	
Physical Education.....	2 credits
Digital Applications and Responsibility .....	1 credit
Health and Wellness .....	1 credit
Electives .....	5 credits
Total.....	40 credits

#### CORE 40 WITH ACADEMIC HONORS (minimum 47 credits)

Complete all requirements for Core 40.

English/Language Art classes are required to be 9A, 10A, 11A, 12A or 12ACP level classes.

Earn 2 additional Core 40 Math credits.

Earn 6-8 Core 40 World Language credits (6 credits in one language or 4 credits each in two languages).

Earn 2 Core 40 Fine Arts credits.

Earn a grade of "C-" or better in courses that will count toward the diploma.

Have a grade point average of 3.0 or better.

Complete one of the following:

- A. Earn 4 credits in two or more AP courses and take corresponding AP exams.
- B. Earn 6 verifiable transcript college credits in dual credit course from priority course list.
- C. Earn two of the following:
  - 1. A minimum of 3 verifiable transcripted college credits from the priority course list,
  - 2. 2 credits in AP courses and corresponding AP exams,
  - 3. 2 credits in IB standard level courses and corresponding IB exams.
- D. Earn a combined score of 1750 or higher on the SAT critical reading, mathematics, and writing sections and a minimum score of 530 on each
  - E. Earn an ACT composite score of 26 or higher and complete written section
  - F. Earn 4 credits in IB courses and take corresponding IB exams

**CORE 40 WITH TECHNICAL HONORS** (minimum 47 credits)

Complete all requirements for Core 40.

Earn 6 credits in the college and career preparations courses in a state-approved College & Career Pathway and one of the following:

- 1. State approved industry recognized certification or credential, or
- 2. Pathway dual credits from the approved dual credit list resulting in 6 transcripted college credits

Earn a grade of “C” or better in courses that will count toward the diploma.

Have a grade point average of a 3.0 or better.

Complete one of the following,

- A. Any one of the options (A-F) of the Core 40 with Academic Honors
- B. Earn the following scores or higher on WorkKeys; Reading for Information-Level 6, Applied Mathematics-Level 6, and Locating Information-Level 5.
- C. Earn the following minimum score(s) on Accuplacer: Writing 80, Reading 90, Math 75.
- D. Earn the following minimum score(s) on Compass; Algebra 66, Writing 70, Reading 80

**GENERAL DIPLOMA**

English/Language Arts.....	8 credits
Mathematics.....	4 credits
2 credits..... Algebra I	
2 credits..... any math courses	
<i>General diploma students are required to earn 2 credits in a math or a Quantitative Reasoning (QR) course during their junior or senior year. QR courses do not count as math credits.</i>	
Science.....	4 credits
2 credits..... Biology I	
2 credits..... any science course	
<i>At least one credit must be from a Physical Science or Earth and Space Science course</i>	
Social Studies.....	4 credits
2 credits..... U.S. History	
1 credits..... U.S. Government	
1 credit..... Economics	
Physical Education.....	2 credits
Digital Applications and Responsibility.....	1 credit
Health and Wellness.....	1 credit
College and Career Pathway Courses.....	6 credits
Flex Credits.....	5 credits

Flex Credits must come from one of the following:

- Additional elective courses in a College and Career Pathway
- Courses involving workplace learning such as Cooperative Education or Internship courses
- High school/college dual credit courses
- Additional courses in:
  - language arts
  - social studies
  - mathematics
  - science
  - world language
  - fine arts

Electives.....	5 credits
Total.....	40 credits

## **English**

Four years of English are required. English 9,10,11 meet three of these requirements. Options available for students include Speech/Dramatic Literature (10,11,12), English (12,12A), Senior Academic English (12), or Creative Writing (11,12).

## **Science**

Two years of sciences are required . These two years must include one year of a physical science and one year of a life science.

## **State Graduation Examination and Requirements**

A student must pass an End-of-Course Assessment (ISTEP) in Algebra and English 10. ACCUPLACER may be added as a requirement by the state.

### **Additional Information**

A *credit* is given for one semester's work (one-half year) in a subject with five recitation periods a week.

Seven courses are a regular semester's work. Students desiring to take more than six subjects may do so as long as they are in good academic standing or have established a specific need.

Seven courses are a regular course load. Students who desire to take less than a full load must have approval from the principal.

Requirements for graduation from high school shall be set in keeping with the regulations of the State Department of Education. These are minimum requirements which may be raised by action of the Board of Trustees of Mitchell Community Schools. The Board of Trustees of Mitchell Community Schools may authorize, upon the recommendation of the high school principal and/ or the superintendent of schools, the granting of special certificates or diplomas certifying the completion of graduation requirements which deviate from the requirements of Mitchell Community Schools and do not conflict with the regulations of the State Department of Education.

### **Seven Semester Graduation**

Students are encouraged to attend eight semesters of high school from the time they enter grade 9. A student may request seven-semester graduation the spring of his or her junior year. Consideration for seven-semester graduation will be based on the following criteria:

- staff availability
- student is on schedule to graduate
- student exceeded the minimum standard on both sections of the Graduation Examination by the end of the junior year
- student submits a written request by the designated date

### **Intradistrict Transfers of Students**

Students transferring from non-accredited schools will be placed in grades 9-12 in accordance with Mitchell Community School Corporation Policy 5463. Students who have earned acceptable high school credits transferring from non-accredited schools or home school will be placed in the grade level in accordance to acceptable earned credits.

### **Student Fees**

Mitchell High School is now a 1-1 school. All past textbook material will now be accessed through the use of Chromebooks and online curriculum. There will no longer be a textbook fee. Chromebooks will now be used to replace textbooks. Mitchell High School will charge a technology rental for the use of these Chromebooks as well as a curriculum fee for the use of Edmentum. Classroom fees and fees required for advanced classes will be assessed along with a minimal student fee for the publication of the Curriculum Guide and locker maintenance and repair.

## WEIGHTED GRADE PROCEDURE

Only courses taken during the regular school year at Mitchell High School will be used in computing a student's grade point average and class rank. The grade point average will be used to rank students whose grade point average does not exceed 4.0. Any student whose grade point average is above a 4.0 will then be ranked according to his/her total accumulated grade points.

Only courses taken during the regular school year at Mitchell High School, or a high school from which a student transfers, will be calculated for academic top ten honors. In the event a student transfers from another school with more credits earned that could have been earned by a student attending Mitchell High School by comparable semesters, the principal shall make determinations that will equalize credits for fairness purposes.

To be considered for academic top ten honors, a student must earn an academic honors diploma. In addition, a student must attend Mitchell High School for the entire second semester of his/her junior year and both semesters of the senior year. Students who accumulate a total of 238 grade points will be ranked equally at the top of the graduating class.

### Course Weights

#### Weighted Courses

5 points-A  
4 points-B  
3 points-C  
2 points-D  
0 points-F

#### Non-Weighted Courses

4 points-A  
3 points-B  
2 points-C  
1 points-D

#### Courses Weighted

Biology II  
Chemistry II  
Pre-Calculus-Trig  
Calculus  
English Language and Composition (AP)  
Survey of Good Manufacturing Practices

Spanish III  
US History AP  
Environmental Science AP  
Advance Psychology AP  
Mechanical Drafting and Design I  
Survey of Biotechnology

### Guidelines for Student Schedule Changes

- I. Schedule changes can be made for students who
  - A. have been misplaced in a course.
  - B. have failed a prerequisite.
  - C. have a study hall and wish to add a class (providing there is room).
  - D. have changed their academic plans.
  - E. need a study hall.
- II. Schedule changes will *not* be permitted for students who
  - A. have changed their minds about a preregistered elective.
  - B. have made requests to rearrange class periods.
- III. Additional information:
  - A. Schedule changes will be made only for valid academic reasons.
  - B. Schedule changes must be made during registration or the drop/add period.
  - C. Schedule changes must be approved by the principal, counselor, teachers, student, and parent.

## **NORTH LAWRENCE CAREER CENTER (Course Descriptions)**

Programs at the Career Center are two-fold in purpose: to provide entry-level job skill training and to prepare students for post-secondary education, including apprenticeships, in fields of high technology. Students interested in enrolling in a program at the Career Center should study the course descriptions, discuss career choices with their parents and their counselors, then enroll in the classes which best meet their career choice. Certificates of Completion are presented to successful program completers.

All programs at the North Lawrence Career Center employ competency-based instructional methods. Students are evaluated on their ability to demonstrate competency in related skills, knowledge, and attitude, which includes work ethic, attendance, etc. In addition, basic skills in communication, math, and science are stressed. Career awareness, occupational requirements, and knowledge of all aspects of the industry are a part of the curriculum. Courses are open to all students regardless of age, race, color, national origin, sex, or handicapped condition. Students are encouraged to enroll in non-traditional for gender programs. Career and Technical programs meet the requirements as a Core 40 directed elective. They fit as part of a Technical Career area and can fulfill up to two credits toward graduation in Technology. If you have further questions please contact Mr. Glen Weil, NLCC Director, by phone at 812-279-3561, by fax 812-275-1578, or email at: [weilg@nlcs.k12.in.us](mailto:weilg@nlcs.k12.in.us)

### **The following programs are available at North-Lawrence Career Center:**

#### **A. Agricultural Power**

1. 5088—*Agricultural Power* is a two-semester lab intensive course in which students develop an understanding of basic principles of selection, operation, maintenance and management of agricultural equipment in concert while incorporating technology. Topics covered include safety, electricity, plumbing, concrete, carpentry, metal technology, engines, engineering technologies, leadership development, supervised agriculture experience and career opportunities in the area of agriculture power, structure and technology.

#### **B. Information Technology**

1. 5234—*Network Networking I & II*, *Networking introduces students to local and wide area networks, home networking, networking standards using the IEEE/OSI Model, network protocols, transmission media and network architecture/ topologies. Security and data integrity are introduced and emphasized throughout this course, which offers students the critical information needed to successfully move into a role as an IT professional supporting networked computers. Concepts covered will include TCP/IP client administration, planning a network topology, configuring the TCP/IP protocol, managing network clients, configuring routers and hubs, as well as creating a wireless LAN.*

2. 5232—*Interactive Media* prepares students for careers in business and industry working with interactive media products and services, which includes the entertainment industries. The course emphasizes the development of digitally-generated or computer-enhanced products using multimedia technologies. Students will develop an understanding of professional business practices including the importance of ethics, communication skills, and knowledge of the “virtual workplace.” This course will allow students to have experiences in various software programs involved in creating multimedia presentations, digital movies, digital animation, and introductory scripting. Students explore the role of contemporary marketing and design. The main software/languages used will be Adobe Creative Suite, Adobe Director, Alice, and XML. This course is aligned with a postsecondary course for dual credit:

*Ivy Tech: VISC 200 Interactive Media (pending)*

3. 4812—*Computer Science I, II* covers fundamental concepts of programming provided through explanations and effects of commands and hands-on utilization of lab equipment to produce correct output. This course introduces the structured techniques necessary for efficient solution of business-related computer programming logic problems and coding solutions into a high-level language. This course includes program flowcharting, pseudo coding, and hierarchy charts as a means of solving these problems. The course covers creating file layouts, print charts, program narratives, user documentation, and system flowcharts for business problems. This course also reviews algorithm development, flowcharting, input/output techniques, looping, modules, selection structures, file handling, and control breaks. This course offers students an opportunity to apply skills in a laboratory environment. Demonstrations of business problems and solutions techniques will be reviewed. Visual Basic 2010 or newer will be the main software/languages used. This course is aligned with postsecondary courses for dual credit:

Ivy Tech: CINS 113 Logic Design Programming

CINS 137 Visual Basic Programming

Vincennes University: TBD

4. 5230—*The Computer Tech Support* course will prepare students for careers dealing with information technology deployment. Students will gain necessary skills to implement computer systems and software provide technical assistance, and manage information systems. Skills needed to acquire certifications will be an integral part of this program 9(i.e. Microsoft MOS CompTIA A+, IC3, etc.). Although Computer Tech support may benefit all careers clusters, this program is recommended as a component for business, management, engineering, science, or technology. Students will have the opportunity to repair and maintain computers, design and build a computer from industry standard parts and develop advance application and software skills. Essential skill areas include but are not limited to

- General Computer Usage Skills
- Maintaining Computer Hardware
- Installing/Supporting Operation System (Window 7)
- Advanced Applications Usage (Microsoft Office 2007)
- Computer Repair and Maintenance (Comp, TIA, A+, or IC3)
- Basic Troubleshooting Skills
- Business Skills (Business Professionals of America)
- Management Skills
- Certification Testing Center (MOS, A+, IC3)

## **C. Manufacturing/Engineering**

1. 5684—*Electronics Technology I, II* - Electronics & Computer Technology is a two-year program designed for students interested in pursuing a career in the exciting field of Electronics. Students are provided with a solid foundation in analog and digital electronics. A variety of learning experiences are provided to furnish students with a sound knowledge of electronic components and circuitry. Classroom and laboratory instruction is provided.

### • *Dual Credit for College*

The Electronics & Computer Technology Program has dual-credit agreements in place with area colleges in which students may be granted up to 12 college credits toward a degree in electronics Technology while still in high school and may not be required to pay tuition or lab fees for them.

### • *National Certification*

The Electronics & Computer Technology students may successfully acquire national certification through Electronics Technician Association (ETA) organization as Student (SET) and Associate Level Certified Electronics Technicians (CET) while still in high school.

### • *Co-Operative Learning Experience*

The Electronics Technology Program has several co-operative learning partnerships with businesses and industries which have included Crane NWSC, PTS Electronics, Pynco Electronics, C&M Manufacturing, Bloomington Hospital, and Electronic Communications System. These partnerships provide electronics technician trainees a variety of learning experiences.



2. 5782—*Precision Machine Technology I, 5784—II* - Precision Machine Technology is a program designed to provide experience and training in layout, lathe work, mill work, grinding, and other miscellaneous machine tool operation. Related instruction in technical and general related information is also a part of the course. The above experiences are provided through a number of shop projects chosen by the instructor and students. Advanced problems and projects will also be pursued. Blueprint reading and mathematics are taught in the class in an applied manner so the student recognizes a need for both. The intent of the class is to teach job entry skills and a strong background for post-secondary opportunities for the various related trades using basic machine shop equipment. Some of the trades using these skills are die makers, pattern makers, grinders, machine operators, and machine repairmen. Students who successfully complete the Precision Machining program and Metalworking Technology may receive a Metalworking Technology Certificate from Vincennes University upon completion of their post-secondary math and English courses. Students are affiliated with Skills USA.

3. 5776—*Welding Technology I, 5778—II* - Welding Technology is a course which prepares the student for employment upon satisfactory completion. The training is oriented to the metal-working industry. The training provided is practical and the testing required is based on national qualification standards and specifications by the AWS (American Welding Society). The areas of instruction are oxy-fuel welding and cutting, shielded metal arc welding, MIG welding, TIG welding, welding ferrous and non-ferrous metals, reading welding symbols, blueprints, and metal fabrication. Each student is measured and graded through welding skill, welding knowledge, attitude, and safety. A prerequisite for Welding 2 is a passing grade in Welding 1. As students progress through the program, they begin to fabricate larger projects such as trailers, sand rails (dune buggies), and farm implements, etc. The welding program is a Cooperative Education program which enables the student who has been enrolled for three semesters and has grades of “C” or better and good attendance, to go to an approved site of employment to work. This program is affiliated with skills USA. Taking Welding Technology 1 earns students dual credit at Ivy Tech. A student completing the two-year welding program with a grade of “C” or better, in all four semesters, will earn a Certificate of Completion from NLCC.

4. 4812—*PLTW-Engineering* - Prerequisite: Grade of “B” or higher in Algebra 1

*Project Lead the Way (PLTW)* offers a dynamic high school program that provides students with real-world learning and hands-on experience. Students interested in engineering and other applied math and science areas will discover PLTW is an exciting portal into these industries. PLTW courses engage high school students through a combination of activities-based, project-based, and problem-based learning. All three “Pathways to Engineering” foundation courses are now available:

- INTRODUCTION TO ENGINEERING DESIGN - Uses a design development process while enriching problem-solving skills; students create and analyze models using specialized computer software.
- PRINCIPLES OF ENGINEERING - Explores technology systems and manufacturing processes; addresses the social and political consequences of technological change.
- DIGITAL ELECTRONICS - Teaches applied logic through work with electronic circuitry which students also construct and test for functionality.

Students are encouraged to take all three PLTW courses in any order during their high school career. Students may earn up to six college credits for these courses. Students are encouraged to explore the PLTW website at <http://www.pltw.org/index.cfm> for more information.

## **D. Transportation**

1. 5514—*Automotive Collision Repair Technology I, II* - Automotive Collision Repair Technology is a program that provides job-entry skills in the various occupations associated with this trade. The course includes technical and general-related material to enhance the laboratory learning experiences. Enamel base coat-clear coat painting, assembly and disassembly of sheet metal parts, glass installation, MIG weld, car clean-up, and metal straightening are emphasized. This program is associated with skills USA which provides leadership, skill development opportunities, and competition for students.

2. 5510—*Automotive Services Technology I, II* - This program is designed to provide experience and familiarization with all parts of the automobile. This is a NATEF/ASE accredited program that will cover four areas (brakes, steering and suspension, electronics, and engine performance) over a two-year period through classroom lectures, assessment testing, and hands-on competencies. Other areas such as engine repair, manual drive-trains, automatic transmissions and transaxles, and heating and air conditioning will be discussed as time allows. Once a student enters the program, each course must be passed in order to move to the next level. Students will become proficient in the use of hand tools, test equipment, and specialized tools needed in the automotive trades industry. Students that successfully complete the two-year program will possess job entry-level skills of an automotive technician or one of the many closely related occupations. Post-secondary credit is available for this program through articulation and dual credit agreements with Ivy Tech Indianapolis. A cooperative education work program is also available to second year students who qualify and are selected for the program. This program is associated with Skills USA which provides leadership, skill-development opportunities and competition for students.

### **E. Arts, AV Tech & Communication**

1. 5550—*Graphics Design & Layout I, II* - This course provides instruction and training in graphic communications/computer graphics. Students who successfully complete the coursework might expect to have an excellent background for furthering their education in computer graphics, graphic communications, media design, flash animation, desktop publishing, movie production, or another related area of study after high school. Opportunities also exist to become employed upon graduation from high school in a related area. Knowledge, skill acquisition, and attitudes necessary to succeed in graphic communications will be stressed. Units of instruction will include, but not be limited to, computer graphic design, flash animation, digital movie design and production, electronic imaging and editing, digital photography, editing and producing photos in Photoshop, digital and offset printing, finishing operations, professional ethics and business practices, and finding and keeping jobs. There is also an opportunity to earn dual credits with various colleges and universities as an integral aspect of the coursework. Students enrolled in this course are members of the Technical Students Association (TSA), a student youth organization which provides students with opportunities to participate in educational, recreational, competitive, and civic activities at the local, state, and national levels.

2. 5986—*Radio and TV I* - Radio and Television I focuses on communications, media and production. Emphasis is placed on career opportunities, production, programming, promotion, sales, performance, and equipment operation. Students will also study the history of communication systems as well as communication ethics and law. Students will develop oral and written communication skills, acquire software and equipment operation abilities, and integrate teamwork skills. Instructional strategies may include a hands-on school-based enterprise, real and/or simulated occupational experiences, job shadowing, field trips, and internships.

3. 5992—*Radio and Television II* - Radio and Television II prepares students for admission to television production programs at institutions of higher learning. Students train on professional equipment creating a variety of video projects. During this second-year program students integrate an build on first-year curriculum while mastering advanced concepts in production, lighting and audio.

### **F. Trade & Industry**

1. 5580—*Construction Trades I, II* - Students receive instruction and experience in residential and light commercial construction fundamentals and practice. Experience is provided in construction trade skills such as masonry, rough framing, electrical wiring, plumbing, interior and exterior finishing, and site preparation. Classroom work in related technical and general information is provided. Students in this program gain hands-on experience through a diversity of construction projects. This program is affiliated with Skills USA.

## **G. Personal/Social Services**

1. *5412—Early Childhood Education I, II* - This program, which is two years in length, prepares students for entry-level positions in child care facilities and postsecondary education opportunities in early childhood education. We run a child care lab with children ages six weeks to six years. This gives students an opportunity to interact with children at all development stages.

2. *5802—Cosmetology I, 5806—II* - The cosmetology program is regulated by the Indiana State Board of Cosmetology and requires at least 1,500 hours to complete. Students are then eligible to take the state licensing test. This is a two-year program for juniors and seniors and requires an extended school day. This program is currently contracted to the Indiana Cosmetology Academy. Students must provide their own transportation to/from the Academy. Students must purchase a kit which includes curlers, scissors, and mannequins.

3. *5282—Health Science Education I* - Health Science Education I is a course designed to provide a foundation of skills development to specific health careers including: patient care, dental care, animal care, medical laboratory, and public health. Students will also receive an introduction to healthcare systems, anatomy, physiology, and medical terminology. Laboratory experiences with industry applications are organized and planned around the activities associated with the student's career objectives. Job seeking and job maintenance skills, personal management skills, self-analysis to aid in career selection and completion of the application process for admission into a postsecondary program of their choice are also included in the course. Participation in HOSA encourages the development of leadership, communication and career related skills, and opportunities for community service.

4. *5274—Health Science Medical Terminology*— Medical Terminology prepares students with language skills necessary for effective, independent use of health and medical reference materials. It includes the study of health and medical abbreviations, symbols, and Greek and Latin word part meanings, all taught within the context of body systems. This course builds skills in pronouncing, spelling, and defining new words encountered in verbal and written information in the healthcare industry. Students have the opportunity to acquire essential skills for accurate and logical communications, and interpretation of medical records. Emphasis is on forming a foundation of a medical vocabulary including; appropriate and accurate meaning, spelling, and pronunciation of medical terms, and abbreviations, signs, and symbols.

## **BUSINESS DEPARTMENT**

### **4518-Introduction to Business** (1Semester, 1 Credit) (9)

1. Prerequisite—none
2. Textbook—Principles of Business
3. Workbook—none
4. Class Fee—none

Business Foundations is an introductory business course that provides instruction in business concepts and skills students will need in today's competitive environment. The course is designed to prepare students to make decisions in their interrelated roles as consumers, wage earners, and citizens with emphasis on the economic environment and personal financial management.

### **4528-Digital Applications and Responsibility** (1 Semester, 1 Credit) (9)

1. Prerequisite—none
2. Textbook—*Century 21 Computer Applications and Keyboarding/Introduction Microsoft Office*
3. Workbook—none
4. Class Fee—\$3.00

*Digital Applications and Responsibility* prepares students to use technology in an effective and appropriate manner in school, in a job, or everyday life. Students develop skills related to word processing, spreadsheets, presentations, and communications software. Students learn what it means to be a good digital citizen and how to use technology, including social media, responsibly. Students expand their knowledge of how to use digital devices and software to build decision-making and problem-solving skills. Students should be provided with the opportunity to seek industry-recognized digital literacy certifications.

## ENGLISH DEPARTMENT

### **1002-English 9/Themes in Literature** (2 Semesters, 1 Credit per Semester) (9)

#### 1. Prerequisite—none

Students will survey various genres of literature as presented through the works of both eminent and contemporary writers. Specific attention will be given to story structures, author's purpose, and context clues. Both Vocabulary and Grammar instruction will be integrated into framework of the course as a means of improving written and oral communication. The students will communicate their ideas through class participation and presentations on varied assignments. Listening skills will be reinforced so that students may better understand and appreciate oral forms of communication. Students will engage in the writing process that includes prewriting, drafting, peer sharing, revising and completing a final draft. These papers will be written for different audiences and purposes and will include narrative, expository, and descriptive texts that employ original ideas, good organization, a sense of voice, effective word choice, varied sentence structure, and a control of basic conventions.

### **1002A-English 9A/ Themes in Literature** (2 Semesters, 1 Credit per Semester) (9)

1. Prerequisite—Students must have received a "B" or higher for all grading periods in 8th grade Language Arts to be admitted into English 9A. A consultation between 8th and 9th grade English teachers is required for admittance if a student does not meet the grade requirements.

In this non-weighted class, students will survey various genres of literature as presented through the works of both eminent and contemporary writers. Material covered in English 9A is covered at an accelerated pace so that more material may be included. Students are expected to do more independent work. Both grammar and vocabulary instruction are integrated into the framework of the class as a means of improving written and oral communication. The students will communicate their ideas through class participation and presentations. Students will engage in the writing process that includes prewriting, drafting, peer editing, revising, and completing a final draft. These assignments will include narrative, expository, and descriptive writing that employ original ideas, good organization, a sense of voice, effective word choice, varied sentence structure, and a control of basic conventions.

### **1004-English 10** (2 semesters, 1 Credit per semester) (10)

#### 1. Prerequisite—English 9 or 9A

Students will read and respond to the various genres of world literature encountered in the class. Students will analyze the structure and format of various writings to explain how authors employ various literary techniques (such as language use, logic, opinion, ideology, point-of-view, suggestion, imagery, allegory, symbolism, structure, tone, flashback, and foreshadowing) in forming and presenting ideas and conclusions. Students will write for various purposes and audiences. Elements of good writing (such as stating and supporting a point of view or opinion, effective use of transitions, precise language, persuasion, and literary analysis) in well-organized, descriptive, expository, persuasive, and narrative writings that employ original ideas, good organization, a sense of voice, effective word choice, varied sentence structure, and a control of basic conventions will be required. Formal study of grammar, usage, spelling, and language mechanics is integrated into the study of writing.

### **1004A-English 10A** (2 Semesters, 1 Credit per Semester) (10)

1. Prerequisite—Students must have received a "B" or higher both semesters in 9A Language Arts to be admitted into English 10A. A consultation between 9th and 10th grade English teachers is required for admittance if a student does not meet the grade requirements.

This course is an extension of English 10. Material covered in English 10A is covered at an accelerated pace so that more material may be covered. Students will be expected to do more independent work. Students will read and respond to the various genres of world literature encountered in the class. Students will analyze the structure and format of various writings to explain how authors employ various literary techniques (such as language use, logic, opinion, ideology, point-of-view, suggestion, imagery, allegory, symbolism, structure, tone, flashback, and foreshadowing) in forming and presenting ideas and conclusions. Students will write for various purposes and audiences. Effective use of the elements of six-trait writing will be required. Formal study of grammar, usage, spelling, and language mechanics is integrated into the study of writing.

### **1006-English 11** (2 Semesters, 1 Credit per Semester) (11)

1. Prerequisite—English 10 or 10A

2. Textbook—*literature! The American Experience*

3. Class Fee—\$1.00

This is a course in language, writing, and American Literature, stressing both the historical significance and background of the readings as well as the author's purpose and style. Literary elements used by the authors and social influences on each work are studied. Writing will consist of interpretive responses to the readings as well as a reflective essay which emphasizes the entire writing process and six-traits curriculum. Novels will be included, and multimedia projects will be presented.

### **1006A-English 11A** (2 Semesters, 1 Credit per Semester) (11)

1. Prerequisite—Same as for 10A and 12A

2. Textbook—*Literature! The American Experience*

3. Class Fee—\$1.00

This is a course in language, writing, and American Literature, stressing both the historical significance and background of the readings as well as the author's purpose and style. Literary elements used by the authors, and social influences on each work are studied. Writing will consist of analytic responses to the reading as well as an historical investigation with an emphasis on research skills. Writing will emphasize the entire writing process and be based on the six-traits curriculum. Novels will be included and multimedia projects will be presented. This is a college preparatory class, and as such, more independent work will be included and higher level reading and analysis of texts is expected.

### **1008-English 12** (2 Semester, 1 Credit per Semester) (12)

1. Prerequisite—English 9, 10, and 11

2. Suggested Grade Level:12

3. Textbook—*Textbook Collections*

4. Workbook—*Collections Close Reader*

5. Class Fee—\$1.00

This is an integrated business and English course that will provide students with the communication and problem-solving skills to function effectively in the workplace. This course will study written, oral, and visual communication as well as listening. Concepts addressed will be close reading of a variety of texts; adapting communication to the situation, purpose, and audience; reviewing English mechanics; and preparing for life after high school.

### **1008A-English12A (2 Semesters, 1 Credit per Semester) (12)**

1. Prerequisite—Students must have received a "B" or higher both semesters in 11A Language Arts to be admitted into English 12A. A consultation between 11th and 12th grade English teachers is required for admittance if a student does not meet the grade requirements.

2. Textbook—Literature: The British Tradition

3. Class Fee—\$1.00

Students will focus on refining their skills in literature studies, composition and language, and oral communication. This course offers a survey of British literature and its themes to enable students to respond critically to selections written by outstanding English writers. Writing assignments will relate to the literature studies; additionally, students will polish their composition skills through a variety of writing types including persuasion, analysis, and reflective writing. The writing process which follows the 6-trait approach (prewriting, drafting, revising, editing, and publishing) will be reviewed and implemented. Students will also review/explore researching and will write a historical investigation paper using MLA style. Students will also practice communication (speech) skills, which will be reflected in one or two formal presentations, and they will prepare a resume following conventional business style.

### **1124-Advanced English/Language Arts, ACP Option**

1. Prerequisites—semester grades of B or above in English 10A and 11A classes; recommendation of 10A and 11A instructors. GPA of 3.0 or above PSAT score of 50 or SAT score of 500 in the verbal section.

2. Textbook—*Writing Analytically; Writing and Reading for ACP Composition; Making Literature Matter*

3. Class Fee—\$1.00

Seniors who plan to take Indiana University's Introduction to Composition, W131, and Literary Interpretation, L202, should sign up for this course. The first semester will parallel Indiana University's curriculum for academic, source-based writing. Students will write five papers using text articles following the writing process (prewriting, drafting, revising, editing, and publishing). The final paper will require extensive research by the student. Critical reading strategies are emphasized at the beginning of the course to ensure the student's understanding of the required source articles. The second semester will focus on in-depth studies of several literary genres: poetry, short fiction, drama, and the novel. The student will practice close reading of literature selections, compare works in the same genre, and consider other contexts in which literary works can be placed. Students will be required to write three major papers, including drafts of each, and five microthemes; additionally there will be quizzes on the required reading.

### **1028-Dramatic Literature (L) (1 Semesters, 1 Credit per Semester) (11-12)**

1. Prerequisite—none

2. Textbook—*none*

3. Workbook—none

4. Class Fee—none

Students will study plays and novels to explore the various aspects of dramatic literature. They will study how the works studied translate into other forms of media, such as television and movies. Students will analyze both stories and film in order to create their own interpretations of literature. Students will also give the presentations through the sharing of writing and acting.

### **1056-AP English Language and Composition** (2 Semesters, 1 Credit per Semester) (11)

1. Prerequisite—English 9A and 10A and teacher recommendation. Students should be able to read and comprehend college-level texts and apply the conventions of Standard Written English in their writing.

2. Textbook—*none*

3. Workbook—*none*

4. Class Fee—\$1.00

AP English Language and Composition is a course based on the content established and copyrighted by the College Board. The course is not intended to be used as a dual credit course. The course focuses on the development and revision of evidence-based analytic and argumentative writing and the rhetorical analysis of nonfiction texts. The course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. There is no prescribed sequence of study.

### **1076-Speech** (1 Semester, 1 Credit per Semester) (11-12)

1. Prerequisite—*none*

2. Textbook—*Basics of Speech*

3. Workbook—*none*

4. Class Fee—*none*

Effective oral communication skills and techniques are studied and practiced by students. Students learn how to adapt speeches according to the particular purpose and audience. Opportunities are provided for students to make various types of presentations: 1) instructional, 2) viewpoint, 3) impromptu, 4) interpretive, 5)informative, 6) demonstrative, and 7) persuasive. Students are involved in writing a variety of creative, analytical, and expository writings. They read literary genre related to course content and speech assignments. Students learn to develop and practice good listening skills. Research is emphasized in preparing assignments. Students are required to participate in a presentation at the Mitchell elementary schools in December. They need to have a red sweater and black pants for this presentation.

### **1086 Student Media** (1 semester course, 1 credit per semester, 8 credits maximum) (10-12)

1. Prerequisite – A or B average in both semesters for the previous year’s English classes

2. Textbook—*None*

Student Media is a course based on the High School Journalism Standards and the Student Media Standards. Students demonstrate their ability to do journalistic writing and design for high school media, **including school newspapers and yearbooks, and a variety of other media formats.** Students follow the ethical principles and legal boundaries that guide scholastic journalism. Students express themselves publicly with meaning and clarity for the purpose of informing, entertaining, or persuading. Students work on high school media staffs so that they may prepare themselves for career paths in journalism, communications, writing or related fields. The nature of this course allows for successive semesters of instruction at advanced levels. Fulfills the Fine Arts requirement for the Core 40 with Academic Honors.

**1092-Creative Writing** (1 Semester, 1 Credit) (11-12) (May not be repeated.)

1. Prerequisites—none
2. Textbook—none

In this course, students will have the opportunity to practice and improve their writing skills by exploring different types of creative writing. Students will also improve their skills in proof-reading and editing, as well as analyzing and critiquing writing. Types of writing covered in the course include short stories, poetry, and script writing.

## ART DEPARTMENT

**4000-Introduction to Two-Dimensional Art (L)** (1 Semester, 1 Credit per Semester) (9-12)

1. Prerequisite—none
2. Textbook—*Exploring Visual Design*
3. Class Fee—\$12.00
- 4 Sketchbook will be required

This course is designed for first year art students in grades 9-12. It serves as a background for other art semester courses, introducing the student to the various areas of art. It gives the student a chance to explore a variety of materials including pencil, charcoal, ink, tempera, water color, and some three-dimensional construction processes. The elements of art will be studied in depth with an emphasis on artists that use them in their work successfully. Some of the projects included in this course will be perspective, painting, drawing, paper making, and art appreciation. The student need not draw well to take the course, only possess the desire to want to learn to draw and be willing to practice. Students are encouraged to express themselves creatively and to work to their full capacity. Students will need to buy some additional materials (pencils, pen, erasers, etc...).

**4004-Advanced Two-Dimensional Art (L)** (1 Credit per Semester, may be repeated) (10-12)

1. Prerequisite—successful completion of Introduction to 2-Dimensional Art with a C average.
2. Textbook—*Discovering Drawing & Exploring Painting*
3. Class Fee—\$6.00 (Drawing Semester)
4. Class Fee—\$10.00 (Painting Semester)
5. Sketchbook will be required

Drawing is the basic language in art. The different use of materials, techniques, and ideas will be emphasize . Importance will be placed on the process, such as techniques, as well as the product or the final drawing. Materials used in the course will include pencil, charcoal, pastels, conte crayon, and ink. Some of the subject matter will include the human figure, landscapes, still life and drawing from the imagination. Painting will be offered also. The techniques of painting will be explored in water color, oil, and acrylic paint. Students will be painting some of the following: still life arrangements, models, landscapes, images from imagination, and abstract art. Artists from the past and the present will be studied. Students will need to purchase additional materials (pencils, pen, erasers, etc...).

LEVELS II, III, IV

These students will draw with the Level I students on more advanced projects and independently. The work will be more in-depth and the student will be required to look at the direction he/she wants to take his/her art work. Some additional supplies may need to be provided by the student. *i.e.* special brushes and paint.



#### **4024-Art History** (1 semester, 1 credit) (9-12)

1. Prerequisite – none, Fulfills a Fine Arts requirement for the Core 40 Academic Honors Diploma
2. Textbook – None
3. Class Fee – None

Art History is a course based on the Indiana Academic Standards for Visual Art. Students taking Art History engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production. Students study works of art and artifacts from world cultures, engage in historically relevant studio activities; utilize research skills to discover social, political, economic, technological, environmental, and historical trends and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. Students utilize the resources of art museums, galleries, and studios, and identify art-related careers.

#### **4040-Ceramics (L)** (Fall Semester, 1 Credit per Semester) (11-12)

1. Prerequisite—successful completion of Introduction to 2-Dimensional Art with a C average
2. Textbook—*Experience Clay and Beginning Sculpture*
3. Class Fee—\$30.00 for Ceramics semester (1st semester)
4. Sketchbook will be required

This semester course includes the construction, firing, and glazing processes of clay building. Several hand building techniques, as well as work on the potters wheel will be pursued. Some of the following sculpture methods will be taught using clay: additive, subtractive, and relief. Artists from the past and the present will be discussed, and in some cases their techniques may be copied.

#### **4044-Sculpture (L)** (Spring Semester, 1 Credit per Semester) (11-12)

1. Prerequisite—successful completion of Introduction to 2-Dimensional Art with a C average
2. Textbook—*Experience Clay and Beginning Sculpture*
3. Class Fee—\$10.00 (2nd semester)

This semester course will involve the basic techniques for the design and construction of three dimensional object and non-objective work. Students will be working with forms rather than shape. (Learning to deal with depth). Projects will be made plaster, wire, wood, clay and paper mache. Some assignments may be made from natural, found or “junk” items. Students will be involved in group and individual construction of pieces. The course fee will cover some materials, but not all. Additional materials will have to be collected by the student. Artists from the past and the present will be discussed and in some cases their techniques may be copied.

## MUSIC DEPARTMENT

### **4170-Advanced Band (2 Semesters, 1 Credit per Semester) (9-12)**

1. Prerequisite—ability to play a band instrument or willingness to switch to an instrument that is compatible to band instrumentation. A conference with the director is required if the student can read music, but not play an instrument.
2. Textbook—Music is provided.
3. Class Fee—\$10.00 for purchase of new music

The Mitchell High School Advanced Band consists of students in grades 9-12. Any student may enroll in band providing he/she has prior musical background or wishes to take lessons or summer music classes to acquire the necessary skills and techniques.

The band has two main purposes: 1). To provide and teach musical skills such as tone production, technical skills, intonation, music reading skills, listening skills, analyzing music and exploring musical styles and history; 2). To provide the experience of performing as an ensemble at concerts, marching performances, parades and various athletic functions. The band functions in the summer and fall as a marching unit. The marching season is from June through October. The band may also perform in two or three parades each year. The band is required to be a concert and marching band during certain times of the year. Summer band camp is required as well as other summer and after-school rehearsals. It is essential that the band student realizes that band is a performing organization and attendance at all performances, camps, and rehearsals is required.

### **4188-Advanced Chorus (L) (2 Sem., 1 Credit per Semester) (9-12)**

1. Prerequisite—Ability to sing Soprano, Alto, Tenor, Baritone, or Bass. Every student must meet with the director on sign-up night for voice placement in April. Students who haven't been H.S. Choir before must get measurements taken for an outfit. The cost varies.
2. Textbook—Music
3. Class Fee—\$10.00

The Mitchell High School Mixed Choir consists of students in grades 9-12. Any student may enroll in choir providing he/she has prior musical background or experience singing in a choir. This is a mixed chorus, composed of males and females. It is only offered 7th period. The choir has two main purposes: 1) To provide and teach musical skills, such as music reading skills, tone quality and blend, breathing technique, note accuracy, rhythmic accuracy, diction and enunciation, dynamics and balance, interpretation and musicianship, stage presence, poise, posture, and concert decorum. 2) To provide the experience of performing as an ensemble at concerts, contest, and the Persimmon Festival Parade. Students are encouraged to participate in Solo Spotlight and Solo Contest to help develop their solo singing voice. The MHS Choir performs at the Persimmon Festival, the Fall Concert, Spring Festival, Graduation, and have field trips to Burriss and Hatfield.

### **4164-Jazz Ensemble (L) (1 Semester) offered 2nd Sem. (9-12)**

1. Prerequisite—Must be a member of the high school band.
2. Textbook—none, music is provided
3. Class Fee—\$5.00

The Mitchell H.S. Jazz Band is a learning and performing organization that explores different styles of jazz and contemporary music. The class meets daily. There will be an emphasis on playing different styles of jazz as well as listening experiences. Music theory will be learned as it applies to the understanding and playing of jazz. Improvisation, the art of spontaneously creating music will also be experienced in the classroom setting. The class should ideally consist of five saxophones (two alto, two tenor, and a baritone), four to five trombones, a rhythm section consisting of a piano player, a bass player and a drummer. Membership in the high school band is required. This class is to be taken as an extension of the high school band rather than a substitute. Exceptions may be made in the case of members of the rhythm section. Enrollment in the course must be approved by the director.

## SOCIAL STUDIES DEPARTMENT

### **1570-Geography and History of the World** (2 Semester, 1 Credit per Semester) (9-12)

1. Prerequisite—none
2. Textbook—
3. Workbook—none
4. Class Fee—\$1.00

Students use geographical skills and historical concepts to deepen their understanding of global themes. Students use research tools to ask questions; acquire relevant information; use primary and secondary sources; and produce maps, timelines and other geographic representations to interpret geographic and historical problems and events. Key concepts include change over time, cultural landscape, diffusion, human environment interactions, physical systems, and spatial organization and variation. Fulfills the Geography History of the World/World History and Civilizations graduation requirement for Core 40 and Academic Honors.

### **1548-World History and Civilizations** (2 Semesters, 1 Credit pre Semesters ) (9-12)

1. Prerequisite—none
2. Textbook—*World History*
3. Workbook—none
4. Class fees—\$1.00

World History is applicable toward the Core 40 and Academic Honors Diplomas as well as the Minimum High School Diploma. This course will review the major themes in human history for the eras of Prehistory, Early World Civilization, the Classical Civilizations, and the development of modern nation and societies. The major emphasis of course will be to trace the important themes of human history beginning with the Twentieth Century. This study will include comparative analysis of various types of governmental, economic, and social systems. The role of international relationships in government, economic and social decisions from the viewpoint of national interests will be surveyed. The successes and failures of diplomacy will be analyzed.

### **1542-United States History** (2 Semesters, 1 Credit per Semester) (11)

1. Prerequisite— none
2. Textbook—
3. Workbook— none
4. Class Fee— \$1.00

Students in this course identify and review significant events, individuals, and movements in the early development of the nation. After providing such a review, the course gives major emphasis to the interaction of historical events and geographic, social, and economic influences on national development in the late Nineteenth Century and during the Twenty-First Century. Students will trace and analyze chronological periods and examine the relationships of significant themes and concepts in the U.S. History. Students will be given an opportunity to sequence historical events, examine cause and effect, identify different perspectives, and relate historical situations to current issues. Opportunities are given to develop inquiry skills, and analyze the importance of cultural pluralism and diversity of opinion in American society.

**1562-United States History** (2 Semesters, 1 Credit per Semester) (11) **AP/Dual Credit Option**

1. Prerequisite— none
2. Textbook— *American Pageant*
3. Workbook— none
4. Class Fee— \$1.00

This course is designed to provide a college-level experience and preparation for the AP Exam in May (cost to be announced annually). An emphasis is placed on interpreting documents, mastering a significant body of factual information, and writing critical essays. Topics include life and thought in colonial America, revolutionary ideology, constitutional development, Jeffersonian and Jacksonian democracy, nineteenth-century reform movements, and Manifest Destiny. Other topics include the Civil War and Reconstruction, immigration, industrialism, Populism, Progressivism, World War I, the Jazz Age, the Great Depression, the New Deal, World War II, the Cold War, the post-Cold War era, and the United States at the beginning of the twenty-first century. This course will fulfill the United States history graduation requirement.

In addition to the topics listed above, the course will emphasize a series of key themes throughout the year. These themes have been determined by the College Board as essential to a comprehensive study of United States history. The themes will include discussions of American diversity, the development of a unique American identity, the evolution of American culture, demographic changes over the course of America's history, economic trends and transformations, environmental issues, the development of political institutions and the components of citizenship, social reform movements, the role of religion in the making of the United States and its impact in a multicultural society, the history of slavery and its legacies in this hemisphere, war and diplomacy, and finally, the place of the United States in an increasingly global arena. The course will trace these themes throughout the year, emphasizing the ways in which they are interconnected and examining the ways in which each helps to shape the changes over time that are so important to understanding United States history

**1540-United States Government** (1 Semester, 1 Credit) (12) offered both semesters

1. Prerequisite— none
2. Textbook—
3. Workbook— none
4. Class Fee— \$1.00

United States Government provides a framework for understanding the nature and importance of responsible civic participation and for learning the rights and responsibilities of individuals in a constitutional democracy. Origins of political thought and its development into contemporary political and legal systems will be explored. The constitutional structure and processes of the branches of government, including national, state, and local government, will be examined. This study will include a global comparison of political ideas and government structure, alone with an examination of the impact of economic and political systems on government.

**1514-Economics** (1 Semester, 1 Credit) (12) offered both semesters

1. Prerequisite—none
2. Textbook—*Economics*
3. Workbook—none
4. Class Fee—\$1.00

Economics includes a study of the allocation of scarce resources that are used to satisfy human wants. This course will examine basic models of decision-making used by the consumer, producer, worker, investor, business, and the government. National economic policy and its impact on individuals that interact in the economy will be explored. Qualifies as a quantitative reasoning course.

**1532-Psychology** (2 Semester, 1 Credit) (10-12)

1. Prerequisite—none
2. Textbook—*Understanding Psychology*
3. Workbook—none
4. Class Fee—\$1.00

This course provides students the opportunity to explore psychology as the scientific study of mental processes and behavior. Areas of study include the scientific method, development, cognition, personality, assessment and mental health, and the socio-cultural and biological bases of behavior. Students will understand the development of psychology as an empirical science by describing the scientific method, explaining research strategies, and identifying ethical issues. Students will explain the process of how humans grow, learn, and adapt to their environment. Students will understand how organisms adapt to their environment through learning, information processing, and memory. Students will recognize that personality is the distinctive and relatively stable pattern of behaviors, thoughts, motives, and emotions that characterize an individual. They will also identify the different types and functions of assessment instruments; understand the factors that contribute to mental health, stress, and mental illness; and identify approaches for treatment of mental health problems. Students will understand the socio-cultural dimensions of behavior including topics, such as conformity, obedience, perception, attitudes, and the influence of the group on the individual.

Students will investigate the structure, biochemistry, and circuitry of the brain and the nervous system to understand their roles in affecting behavior, including the ability to distinguish between sensation and perception.

**1558-Advanced Psychology** (2 Semester, 1 Credit) (11-12) AP/Dual Credit Option

1. Prerequisite—none
2. Textbook—*Psychology*
3. Workbook—none
4. Class Fee—\$1.00

Although recommended for college bound students, it is also open to students who are interested in the scientific analysis of behavior. Topics covered include parapsychology and paranormal research, the scientific method, behavior modification, memory, creative thinking and problem solving, personality theories, intelligence, physiology of the nervous system, abnormal behavioral disorders, mental illness and retardation, and anatomy of the sense organs. Students will design and carry out their own lab experiments.

## FAMILY AND CONSUMER SCIENCES

### **5380-Introduction to Fashion and Textiles** (2 Semester, 1 Credit per Semester) (9-12)

1. Prerequisite—none
2. Textbook—*Fashion*
3. Workbook—none
4. Class Fees—\$4.50
5. Student Responsibilities - fabric and sewing supplies

This course addresses knowledge and skills related to design, production, acquisition, and distribution in the fashion, textile, and apparel arena. It includes the study of factors influencing the merchandising and selection of fashion, textile, and apparel goods and their properties, design, and production; consumer skill; and applications of the element and principles of design, selection, production, alteration, repair, and maintenance of apparel and textile products.

### **5342-Nutrition and Wellness** (1Semester, 1 Credit) (9-12)

1. Prerequisite—none
2. Textbook—*Nutrition and Wellness for Life*
3. Workbook—none
4. Class fees—\$2.25
5. Student Responsibilities—notebook

This course introduces students to basic nutrition principles and applications; influences on nutrition and wellness; food preparation, safety, and sanitation; and science, technology, and careers in nutrition and wellness. It serves as an introductory course valuable to all students as it creates a foundation for making healthful choices throughout life.

### **5340-Advanced Nutrition and Wellness** ( 1 Semester, 1 Credit ) (9-12)

1. Prerequisite—Nutrition and Wellness
2. Textbook—*Guide to Good Food*
3. Workbook—none
4. Class fee—\$2.25
5. Student responsibilities –notebook, recipe file

Advanced Nutrition and Wellness provides an extensive study of nutrition for students wanting to improve their nutrition and to learn how nutrition affects the body across the lifespan. It builds upon the foundation established in nutrition and wellness. Topics include an extensive study of major nutrition, nutritional standards across the lifespan, and influences on food handling and preparing skills while focusing on nutrition, food safety, and sanitation.

### **5330-Adult Roles and Responsibilities** (Spring Semester, 1 Credit) (10-12)

1. Prerequisite—none
2. Textbook—*Managing Life Skills*
3. Class Fee— \$2.25
4. Student Responsibilities—notebook

Adult Roles and Responsibilities builds knowledge, skills, attitudes, and behaviors that students will need as they complete high school and prepare to take the next steps toward adulthood in today's society. The course includes the study of interpersonal standards, lifespan roles and responsibilities, individual and family resource management, and financial responsibility and resources.

### **5362-Child Development** (1 Semester, 1 Credit) (9-12)

1. Prerequisite— none
2. Textbook—*The Developing Child*
3. Class Fee—\$2.25
4. Student Responsibilities—notebook, music, craft supplies for projects

This course addresses issues of child development from conception/prenatal through age three. It includes the study of prenatal development and birth; physical, social, emotional, and intellectual growth and development of children; child care giving and nurturing; and support systems for parents and caregivers.

### **5360-Advanced Child Development** (1 Semester, 1 Credit) (9-12)

1. Prerequisite—Child Development
2. Textbook—*The Development Child*
3. Class Fee—\$2.25
4. Student Responsibilities—notebook, music, craft supplies for projects.

Advanced Child Development addresses issues of child development from age 4 through age 8 (grade 3). It builds on the Child Development course. This course includes the study of professional and ethical issues in child development; child development theories, research, and best practices; child health and wellness; teaching and guiding children; and special conditions affecting children.

### **5350-Introduction Housing and Interior Design** ( 2 Semester, 1 Credit per Semester) (10-12)

1. Prerequisite—none
2. Textbook—*Housing and Interior Design*
3. Class Fee—\$4.25
4. Student Responsibilities—notebook, supplies for projects

This course addresses the selection and planning of designed spaces to meet the needs, wants, values, and lifestyles of individuals, families, clients, and communities. Housing decisions, resources, and options will be explored including factors affecting housing choices and the types of housing available. Basic historical architectural styling and basic furniture styles will be explored as well as basic identification of the elements and principles of design. Design and space planning involves evaluating floor plans and reading construction documents while learning to create safe, functional, and aesthetic spaces.

### **5408 EDUCATION PROFESSIONS I** (2 semesters, 1 credit per semester) (12)

1. Prerequisite— Nutrition and Wellness, Child Development, Advanced Child Development
2. Textbook—None
3. Class Fee—None
4. Student Responsibilities—

Education Professions I provides the foundation for employment in education and related careers and prepares students for study in higher education. An active learning approach that utilizes higher order thinking, communication, leadership, and management processes is recommended in order to integrate suggested topics into the study of education and related careers. The course of study includes, but is not limited to: the teaching profession, the learner and the learning process, planning instruction, learning environment, and instructional and assessment strategies. Exploratory field experiences in classroom settings and career portfolios are required components. A standards-based plan guides the students' field experiences. Students are monitored in their field experiences by the *Education Professionals I* teacher. Articulation with postsecondary programs is encouraged.

## ENGINEERING AND TECHNOLOGY EDUCATION DEPARTMENT

### **4790 ---Introduction to Communications** (2 Semesters, 1 Credit per Semester) Elective (9- 12)

Prerequisite – None

Textbook – Introduction to Multimedia

Workbook - none

Class Fee - \$15.00

This is a course that specializes in identifying and using modern communication to exchange messages and information. This course explores the application of the tools, materials, and techniques used to design, produce, use, and assess systems of communication. Students will produce graphic and electronic media as they apply communication technologies. This course will also explore the various technical processes used to link ideas and people through the use of electronic and graphic media. Major goals of this course include an overview of communication technology, the way it has evolved, how messages are designed and produced, and how people may profit from creating information services and products. Students will explore mass media communication processes including radio and television broadcasting, publishing and printing activities, telecommunication networks, recording services, computer and data processing networks, and other related systems. Using the base knowledge student will use the design process to solve design projects in each communication area.

### **4784 ---Introduction to Manufacturing** (2 Semesters, 1 Credit per Semester) Elective (11, 12)

Prerequisite – None

Textbook – Manufacturing and Automation Technology

Workbook - none

Class Fee - \$33.00

Introduction to Manufacturing is a course that specializes in how people use modern manufacturing systems with an introduction to manufacturing technology and its relationship to society, individuals, and the environment. An understanding of manufacturing provides a background toward developing engineering & technological literacy. This understanding is developed through the study of the two major technologies, material processing and management technology, used by all manufacturing enterprises. Students will apply the skills and knowledge of using modern manufacturing processes to obtain resources and change them into industrial materials, industrial products and consumer products. Students will investigate the properties of engineered materials such as: metallic; polymers; ceramics; and composites. After gaining a working knowledge of these materials, students will study six major types of material processes: casting and molding; forming; separating; conditioning; finishing; and assembling.

### **4792---Introduction to Construction** (2 Semesters, 1 Credit per Semester) Elective (10, 11, 12)

Prerequisite – none

Textbook – Construction Technology and Building Construction Principles, Materials and Systems

Workbook - none

Class Fee - \$33.00 covering all expendable supplies used during the year.

Introduction to Construction is a course that will offer hands-on activities and real world experiences related to the skills essential in residential, commercial and civil building construction. During the course students will be introduced to the history and traditions of construction trades. The student will also learn and apply knowledge of the care and safe use of hand and power tools as related to each trade. In addition, students are introduced to blueprint reading, applied math, basic tools and equipment, and safety. Students will demonstrate building construction techniques, including concrete and masonry, framing, electrical, plumbing, dry walling, HVAC, and painting as developed locally in accordance with available space and technologies. Students learn how architectural ideas are converted into projects and how projects are managed during a construction project in this course. Students study construction technology topics such as preparing a site, doing earthwork, setting footings and foundations, building the superstructure, enclosing the structure, installing systems, finishing the structure, and completing the site. Students also investigate topics related to the purchasing and maintenance of structures, special purpose facilities, green construction and construction careers.



**4836 ---Mechanical Drafting and Design I\*** (2 Semesters, 1 Credit per Semester) Elective (11, 12) Dual-Credit program with Ivy-Tech Community College (6hrs credit)

1. Prerequisite – 4790 Introduction to Communications
2. Textbook – Technical Drawing 101 with AutoCAD/AutoCAD and its applications
3. Workbook - none
4. Class Fee - \$15.00

Mechanical Drafting and Design I provide students with a basic understanding of the detailing skills commonly used by drafting technicians. Areas of study include: lettering, sketching, proper use of equipment, geometric constructions with emphasis on orthographic (multi-view) drawings that are dimensioned and noted to ANSI standards. Another purpose of this course is to provide students with a basic understanding of the features and considerations associated with the operation of a computer-aided design (CAD) system. Students will gain valuable hands-on experience with Auto CAD. They will be expected to complete several projects (increasing in difficulty) relating to command topics. Topics include: 2D drawing commands, coordinate systems, editing commands, paper and model space, inquiry commands, layers, plotting, text, and basic dimensioning.

During the **fall semester** students will be enrolled in DESN 104 Mechanical Graphics (Ivy-Tech Dual-Credit course), this class will require extra time outside of normal class time to complete the required drawings and assignments.

During the **spring semester** students will be enrolled in DESN 113 2D Computer-Aided Design (Ivy-Tech Dual-Credit course), this class will require extra time outside of normal class time to complete the required drawings and assignments.

\*These two class titles may be changed to reflect the agreement with Ivy Tech Community College for the Dual-Credit.

*\*\*\*The following classes can be a stand-alone class or be taught together within the same period (depending on enrollment numbers), with the class divided with first year students enrolled in ECT I, the second year students enrolled in ECT II, and third year students enrolled in ECT III. Each student will have to fill out an application in the spring semester prior to registration and turn in the completed application to the instructor. An interview process will be used to ensure the student's ability and interests are met before the student is enrolled. Even though a student has completed a prerequisite, the student should be able to perform the skill needed for the specific class he or she is enrolled in.*

**\*\*\*5684---Electronics and Computer Technology I**, (2 Semesters, 1 Credit per Semester) (10-12)

1. Prerequisite – Introduction to Communication
2. Textbook – Computer Service and Repair
3. Workbook – None
4. Class Fee - \$15.00

Electronics and Computer Technology I introduces students to the fundamental electronic concepts necessary for entry into an electronic and computer systems career pathway, which will culminate with industry certifications or additional post-secondary education. Classroom and laboratory experiences will allow students begin their career preparation in the fundamental electronics concepts of Jobsite Skills, DC Basics, AC Basics, and Personal Computer Design, and will incorporate safety, technical writing, mathematical concepts, and customer service.

**\*\*\*5694---Electronics and Computer Technology II**, (2 Semesters, 1 Credit per Sem.) (11, 12)

1. Prerequisite – Electronics and Computer Technology I
2. Textbook – Computer Service and Repair
3. Workbook – None
4. Class Fee - \$15.00

Electronics and Computer Technology II provides the opportunity for students to continue with foundational electronic concepts including circuit analysis and digital electronics modules. The content of this class is designed to provide the area with a trained workforce in emerging technologies career pathways that will make a significant contribution to the Indiana economy. Classroom, laboratory, and work-based experiences in the fundamental electronics concepts of circuit analysis and digital electronics, and Personal Computer Design and will incorporate safety and lab setup.

**\*\*5694A---Electronics and Computer Technology III, (2 Semesters, 1 Credit per Sem.) (11, 12)**

1. Prerequisite – Electronics and Computer Technology II
2. Textbook – Computer Service and Repair
3. Workbook – None
4. Class Fee - \$15.00

Electronics and Computer Technology III provides more opportunities for students to continue with foundational electronic concepts including circuit analysis, digital electronics modules, basic computer design and structure. Students will help guide first year students in the building and repair of computers, and assist with other lab assignments. Third year students will have opportunities to work with the Technology Department in their day to operation.

*\*\*The following classes can be a stand-alone class or be taught together within the same period (depending on enrollment numbers), with the class divided with first year students enrolled in GIT I, the second year students enrolled in GIT II, and third year students enrolled in GIT III. Each student will have to fill out an application in the spring semester prior to registration and turn in the completed application to the instructor. An interview process will be used to ensure the student's ability and interests are met before the student is enrolled. Even though a student has completed a prerequisite, the student should be able to perform the skill needed for the specific class he or she is enrolled in.*

**\*\*5572S.1-Graphic Imaging Technology I, (2 Semesters, 1 Credit per Semester) (10-12)**

1. Prerequisite—Introduction to Communications
2. Textbook—Introduction to Desktop Publishing
3. Workbook—none
4. Class Fee—\$15.00

Graphic Imaging Technology (GIT) will include organized learning experiences that focus on theory and laboratory activities in pre-press, press and finishing operations. Emphasis will be placed on elements of design and layout leading to computerized electronic image generation, plate preparation, pressroom operations, and finishing techniques. Instructional activities will enhance student's language arts skills through the use of proofreading, spelling, and punctuation exercises. The course will include actual production processes in conjunction with classroom assignments embracing the technologies of printing, publishing, packaging, electronic imaging, and their allied industries.

**\*\*5572S.2---Graphic Imaging Technology II, (2 Semesters, 1 Credit per Sem.) (11-12)**

1. Prerequisite – Graphic Imaging Technology I
2. Textbook – Introduction to Desktop Publishing
3. Workbook – None
4. Class Fee - \$15.00

Graphic Imaging Technology II is a continuation of GIT I, with the students increasing their knowledge of graphic design and layout. Students will have extensive use of Photoshop, Illustrator, In Design, MS Publisher, Dreamweaver, Fireworks, and other related software. Students will have the opportunity to actually work directly on projects for the school corporation, including printing and designing projects as requested. NOTE: Only students that successfully complete GIT I are able to take this course.

**\*\*5572S.3---Graphic Imaging Technology III, (2 Semesters, 1 Credit per Sem.) (12)**

1. Prerequisite – Graphic Imaging Technology II
2. Textbook – Introduction to Desktop Publishing
3. Workbook – None
4. Class Fee - \$15.00

Graphic Imaging Technology III is a continuation of GIT I & II, with the students completing projects for the school corporation, including printing and designing projects for local non-profit groups. NOTE: Only students that successfully complete GIT I & II are able to take this course.

## FOREIGN LANGUAGE DEPARTMENT

### **2120-Spanish I** (2 Semesters, 1 Credit per Semester) (9-12)

1. Prerequisite—C average or better in English strongly suggested
2. Textbook—*Asi se dice I*
3. Workbook—*none*
4. Class Fee—*none*

Students will begin developing skills in listening, speaking, reading, and writing in the Spanish language. Grammar instruction will focus on the present tense, along with basic structures of the language. Classes focus on providing opportunities for students to read and hear Spanish. Students will begin to respond by writing and speaking Spanish. Students will examine, discuss, and reflect on cultures of the Hispanic world as well. Students will be required to be active participants, listeners, and readers in order to acquire Spanish.

### **2122-Spanish II** (2 Semesters, 1 Credit per Semester) (9-12)

1. Prerequisite—Spanish I
2. Textbook—*Asi se dice II*
3. Workbook—*none*
4. Class Fee—*none*

Students will continue to develop skills in listening, speaking, reading, and writing in Spanish. In the second year, students will be required to converse and write at length in the Spanish language. Grammar instruction will become more complex, incorporating three main verb tenses. Students will continue to examine, discuss, and reflect on cultures of the Hispanic world as well. Students will be required to be active participants, listeners, and readers in order to acquire Spanish. They will be expected to use Spanish whenever possible in the classroom.

### **2124-Spanish III** (2 Semesters, 1 Credit per Semester) (10-12) Dual Credit Option (Ivy Tech S101 and S102)

1. Prerequisite—Spanish I and II
2. Textbook—*Asi se dice III*
3. Workbook—*none*
4. Class Fee—*none*

Students will continue to develop skills in listening, speaking, reading, and writing in Spanish. Grammar instruction will become more complex, incorporating the five main verb tenses, as well as compound tenses and the subjunctive mood. Students will continue to examine, discuss, and reflect on cultures of the Hispanic world as well. Students will be required to be active participants, listeners, and readers in order to acquire Spanish. \*In the third year, students will be required to speak only Spanish in the classroom.

### **2126-Spanish IV** (2 Semesters, 1 Credit per Semester) (11-12)

1. Prerequisite—Spanish I, II, and III
2. Textbook—*Asi se dice IV*
3. Workbook—*none*
4. Class Fee—*none*

Spanish IV students are not in a separate class, but rather work independently within another class. Students will work independently to further their knowledge and use of the Spanish language and grammar, and their ability to understand and compare Hispanic cultures. Course work will include review of all grammar structures from the first three years of Spanish, along with additional advanced material.

**2020-French I** (2 semesters, 1 credit per Semester) (9-12)

1. Prerequisite—C average or better in English strongly recommended
2. Textbook—*D'accord! Niveau 1*
3. Workbooks—*online - D'accord! Niveau 1*

Students will begin developing skills in speaking, listening, reading, and writing French. As students develop their speaking abilities, they will give and respond to oral directions and commands, make typical request concerning daily activities, tell about daily routines and events, use appropriate forms of address and expressions of courtesy in a variety of social settings, and engage in brief conversations in which they will ask and answer simple questions regarding their needs and interests. Students will also become acquainted with various forms of nonverbal communication, such as gestures and body language, that are incorporated in daily activities. Reading competencies that will be developed include reading words and phrases encountered in menus, signs schedules, and similar situations. In addition, students will read and comprehend short narrative texts, written directions, and various informational texts. Throughout the course, students will also become acquainted with many cultural facets of francophone countries including events, major geographical features, and major holidays. Home Internet access is strongly recommended.

**2022-French II** (2 Semester, 1 Credit per Semester) (10-12)

1. Prerequisite—French I; C average of better in French I strongly recommended
2. Textbook—*D'accord! Niveau 2*
3. Workbooks—*online - D'accord! Niveau 2*

Students will continue their study of French by building upon knowledge and abilities acquired in French I. Students will engage in activities and conversations in which they ask questions regarding routine activities, relate personal experiments or events, express preferences and needs, ask permission, respond to offers of help, and discuss a variety of other topics. Students will not only demonstrate an understanding of main ideas and facts found in simple texts concerning familiar topics, they will also read aloud with appropriate intonation and pronunciation. Students will produce brief written responses in given situations such as personal notes, phone messages, personal letters, or giving directions. Students will become further acquainted with various cultural aspects such as geography, historical events, political structures, visual arts, architecture, and literature. Home Internet access is strongly recommended.

**2024-French III** (2 Semesters, 1 Credit per Semester) (11-12)

1. Prerequisite—French I and II; C average or better in French II strongly recommended
2. Textbook—*D'accord! Niveau 3*
3. Workbooks—*online - D'accord! Niveau 3*

Students will continue to understand and appreciate francophone cultures by comparing social behaviors and values, and students will initiate and participate in discussions concerning these cultures. In these discussions, students will be expected to go beyond employing memorized standard phrases to generate original sentences and responses. The scope of reading materials will be extended to include advertisements, cartoons, personal correspondence, and short literacy selections (including poetry, plays, and short stories). In their writing, students will use familiar vocabulary and structures to complete forms and documents and to take notes. They will also write paraphrases, summaries, and brief compositions which will address various aspects of francophone culture such as major historical events, visual arts, architecture, literature, and so on. Home Internet access is strongly recommended.

**2026-French IV** (2 Semesters, 1 Credit per Semester) (12)

1. Prerequisite—French I, II, and III; C average or better in French III strongly recommended
2. Textbook—*D'accord! Niveau 3*
3. Workbook—*online - D'accord! Niveau 3*

Since French IV is incorporated with French II class, French IV students will often work independently. Throughout the course, students will use their verbal abilities to respond to factual and interpretive questions, interact in more complex social situations, express opinions, make judgments, and paraphrase or restate what someone else has said. Forms of speech that are appropriate to a given situation or audience will be expected. Students will give presentations on cultural topics including traditions, historical or contemporary events, and major historical and artistic figures. Reading materials will include varieties of longer authentic materials such as newspapers, and magazine articles, novels, and essays. Students will write well-organized compositions on various topics and begin using language creatively in writing simple poetry and prose. Home Internet access is strongly recommended.

## MATHEMATICS DEPARTMENT

### **2516—Algebra I Lab** (2 Semesters, 1 Credit per Semester) (9-12)

1. Prerequisite—none
2. Textbook—*none*
3. Workbook—none
4. Class Fee—none; a scientific calculator is required

Algebra I Lab is a support course for Algebra A and B. The course provides students with additional time to build the foundations necessary for high school math courses, while concurrently having access to rigorous, grade-level appropriate courses. A student taking Algebra Lab must also be enrolled in Algebra A/B during the same academic year. This course counts as a Mathematics Course for General Diploma only or as an Elective for Core 40 and Academic Honors.

### **2520A—Algebra A** (1 Semester, 1 Credit) (9-12)

1. Prerequisite—none
2. Textbook—*none*
3. Workbook—none
4. Class Fee—none; a scientific calculator is required

Algebra A covers variables, expressions, properties of numbers, equations, relations, functions, solving and writing equations, absolute value, ratios and proportions, percent of change, and weighted averages. It also covers graphing linear functions, rate of change and slope, direct variation, arithmetic sequences, proportional and non-proportional relationships, and systems of linear equations and inequalities. Graphing and writing equations of linear functions is heavily emphasized as is solving and graphing linear inequalities. Algebra A meets the requirement for Core 40 and Academic Honors.

### **2520B—Algebra B** (1 Semester, 1 Credit) (9-12)

1. Prerequisite—Algebra A
2. Textbook—*none*
3. Workbook—none
4. Class Fee—none; a scientific calculator is required

Algebra B covers properties of exponents, rational exponents, scientific notation, and exponential functions. It also covers operations with polynomials, factoring polynomials, solving quadratic equations, graphing quadratic equations, and using the quadratic formula. Other topics covered are radical functions and equations as well as rational functions and equations. Algebra B meets the requirement for Core 40 and Academic Honors.

Algebra B meets the requirement for Core 40 and Academic Honors. Algebra A and Algebra B also meet the prerequisite for Geometry. Students pursuing Core 40 or Core 40 with Honors should receive credit for Algebra A and B by the end of grade 9.

### **2532—Geometry** (2 Semesters, 1 Credit per Semester) (9-12)

1. Prerequisite—Algebra A and B
2. Textbook—*Geometry*--McDougalLittell
3. Workbook—*Notetaking Guide*
4. Class Fee—none; a scientific calculator is required

Geometry provides students with experiences that deepen the understanding of geometric figures and their properties. Vocabulary, postulates, theorems, deductive reasoning, inductive reasoning, and geometric proofs are stressed. Planar figures (including points, lines, planes, angles, polygons, and circles) and solids (including prisms, pyramids, cylinders, cones, and spheres) are studied. Geometric relationships are investigated (including constructions, slopes, midpoints, distances, parallel lines, perpendicular lines, trigonometric ratios and transformations). Algebraic skills are an integral component for solving geometry problems. Geometry meets the requirement for Core 40 and Academic Honors. Geometry also meets the prerequisite for Algebra II.

**2522-Algebra II** (2 Semesters, 1 Credit per semester) (10-12)

1. Prerequisite—Algebra A and B
2. Textbook—*none*
3. Workbook—*none*
4. Required—Scientific calculator

Algebra II expands on the topics of Algebra A and B. This course includes the study of the following topics: relations, functions, equations, inequalities, polynomials, algebraic fractions, sequences, series, conic sections, counting principles and probability. Algebra II meets the requirement for Core 40 and Academic Honors. Algebra II meets the prerequisite for Pre-Calculus/Trigonometry.

**2564-Pre-Calculus/College Algebra (M136)** (1 Semesters, 1 Credit per Semester) (11-12) **Dual Credit Option**

1. Prerequisite—Algebra A & B, Geometry, and Algebra II
2. Textbook—*PreCalculus with Limits*
3. Workbook—*none*
4. Class Fee—*none*

College Algebra presents an in-depth study of functions, quadratic, polynomial, radical, and rational equations, radicals, complex numbers, systems of equations, rational fractions and exponential and logarithmic functions. MATH 136 and MATH 137 together comprise a standard two-semester college algebra and trigonometry course. 3 credit hours are available from IVY Tech if student passes the Accuplacer. 1st semester only .

**2566-Trigonometry (M137)** (1 Semesters, 1 Credit per Semester) (11-12) **Dual Credit Option**

1. Prerequisite—Algebra A & B, Geometry, Algebra II, and Precalculus/College Algebra
2. Textbook—*PreCalculus with Limits*
3. Workbook—*none*
4. Class Fee—*none*

Trigonometry presents an in-depth study of right triangle trigonometry, oblique triangles, vectors, graphs of trigonometric functions, trigonometric identities and equations and complex numbers in rectangular and polar/trigonometric forms, rectangular and polar coordinates and conics. 3 credit hours are available from IVY Tech if student passes the Accuplacer. 2nd semester only.

**2562-Calculus AP-AB/ACP (M211)** (2 Semesters, 1 Credit per Semester) (11-12)

1. Prerequisite—Algebra A & B, Geometry, and Algebra II, and Pre-Calculus and Trigonometry
2. Textbook—*Calculus Early Transcendental*
3. Workbook—*none*
4. Class Fee—*none*

Calculus is a course that prepares students for college calculus. Topics include (1) functions, graphs, and limits; (2) derivatives; (3) integrals and (4) how math relates to science, especially, physics.

**4512-Business Math** (2 Semesters, 1 Credit per semester) (11-12)

1. Prerequisite—Algebra A and B
2. Textbook—*none*
3. Workbook—*Business Math*
4. Class Fee—*none*
5. Student Responsibilities--Calculator is required

Business Math is a business course designed to prepare students for roles as entrepreneurs, producers, and business leaders by developing abilities and skills that are part of any business environment. Business Math is a business course that will review the basic operations of mathematics and will cover personal and business related mathematics. Students will be prepared to manage their personal finances and understand the fundamentals of business finances. The content includes mathematical operations related to accounting, banking, financing, marketing, and management. Business Math fulfills a mathematics requirement for the General Education Diploma ONLY. Qualifies as a quantitative reasoning course.

## PHYSICAL EDUCATION DEPARTMENT

### **3542B(boys)/G(girls)-Physical Education I (L)** (1 Semester, 1 Credit per Semester) (9)

1. Prerequisite—none
2. Textbook—none
3. Class Fee—\$4.00 (towel usage)

.Physical Education I focuses on instructional strategies through a planned, sequential, and comprehensive physical education curriculum that provides students with opportunities to actively participate in at least four of the following: team sports; dual sport activities; individual physical activities; outdoor pursuits; self-defense and martial arts; aquatics; gymnastics; and dance, all which are within the framework of lifetime physical activities and fitness. Ongoing assessment includes both written and performance-based skill evaluation. Individual assessments may be modified for individuals with disabilities, in addition to those with IEP's and 504 plans (e.g., chronic illnesses, temporary injuries, obesity, etc.). See 511 IAC 7-27-9, 7-27-11.

### **3544B(boys)/G(girls)-Physical Education II (L)** (1 Semester, 1 Credit per Semester) (9)

1. Prerequisite—none
2. Textbook—none
3. Class Fee—\$4.00 (towel usage)

.Physical Education II focuses on instructional strategies through a planned, sequential, and comprehensive physical education curriculum that provides students with opportunities to actively participate in four of the following areas that were not covered in Physical Education I: team sports; dual sport activities; individual physical activities; outdoor pursuits; self-defense and martial arts; aquatics; gymnastics; and dance, all which are within the framework of lifetime physical activities and fitness. Ongoing assessment includes both written and performance-based skill evaluation. Individual assessments may be modified for individuals with disabilities, in addition to those with IEP's and 504 plans (e.g., chronic illnesses, temporary injuries, obesity, etc.). See 511 IAC 7-27-9, 7-27-11.

### **3506-Health and Wellness Education** (1 Semester, 1 Credit per Semester) (10)

1. Prerequisite—none
2. Textbook—*Health and Wellness*
3. Class Fee—none

The title of this course is Health Education. This course will cover mental and emotional health, nutrition, personal health, physical activity environmental health. Safety and first aid, including an introduction to CPR, are covered. Tobacco, alcohol, and drugs are areas covered in the curriculum along with the problems caused by each. A look at communicable and chronic diseases including sexually transmitted diseases, HIV, and AIDS will also be covered. This course is a one-semester, one-credit course and is required to meet graduation requirements, Academic Honors Diploma, and Core 40 requirements.

### **3560R—Lifetime Fitness** (2 Sem., 1 Credit per Semester) (10-12)

1. Prerequisite—Physical Education I and Physical Education II
2. Textbook—none
3. Workbook—*none*
4. Class Fee—\$4.00

Lifetime Fitness is a course that offers a complete program of fitness exercise with the goal of teaching students how to maintain a healthy lifestyle. This class incorporates cardio, yoga and stretching, aerobic circuit training, and light strength training. Benefits include increased flexibility, cardiovascular health, improved strength and general well-being. Students will complete various fitness programs throughout the semester that will improve their overall health and help them to obtain their personal fitness goals. As a culminating activity, students will design and lead a fitness routine for the class. This is a co-educational class.

### **3560S—Elective Physical Education Strength and Conditioning I, II, or III**

(2 Sem., 1 Credit per Semester) (10-12)

1. Prerequisite—Physical Education I and Physical Education II (Boys or Girls Freshmen P.E.), history of good attendance

2. Textbook—none

3. Workbook—*none*

4. Class Fee—\$4.00

The title of this course is Elective Physical Education Strength and Conditioning I. This course provides an opportunity for an in-depth study in strength and condition. The course is designed to allow the student to improve his/her physical condition through the use of weight training, agility, and aerobic exercise. A minimum of two of the following activities will be included in the course: (1) health related fitness activities (2) aerobic (3) and outdoor pursuits. The course will provide opportunities for the students to develop skills that promote lifelong physical fitness. This is a co-educational class. The course is a two semester, one credit course per semester. This course can be taken three years. The scheduling of this course is subject to staff availability.

### **3520-Driver Education (2 Semesters, 0 Credit per Semester) (9-12)**

1. Prerequisite—must be 15 years of age at the start of class

2. Textbook—*Drive Right*

3. Workbook—*Drive Right - Skills and Application*

4. Fee—*To Be Determined*

A student taking this course will have to complete the mandates set forth by the State of Indiana:

\*Meet the 30 hours of classroom requirement

\*Meet the six hours of behind the wheel instruction

\*Course is pass/fail, and to pass, a student must achieve 80% in both the driving and the classroom.

### **3508-Current Health Issues(1 Semester, 1 Credit) offered 1st semester (11-12)**

1. Prerequisite—Health and Wellness Education

2. Textbook—none

*Current Health Issues*, an elective course that can be aligned to *Indiana's Academic Standards for Health & Wellness*, focuses on specific health issues and/or emerging trends in health and wellness, but not limited to: personal health and wellness; non-communicable and communicable diseases; nutrition; mental and emotional health; tobacco-prevention; alcohol and other drug-prevention; human development and family health; health care and/or medical treatments; and national and/or international health issues. This course provides students with the knowledge and skills of health and wellness core concepts, analyzing influences, accessing information, interpersonal communication, decision-making and goal-setting skills, health-enhancing behaviors, and health and wellness advocacy skills.

### **3500-Advanced Health Education(1 Semester, 1 Credit) offered 2nd semester (11-12)**

1. Prerequisite—Health and Wellness Education

2. Textbook—none

*Advanced Health & Wellness*, an elective course that is aligned to the *Indiana's Academic Standards for Health & Wellness*, provides advanced knowledge and skills to help students adopt and maintain healthy behaviors. Through a variety of instructional strategies, students practice the development of functional advanced health information (essential concepts); determine personal values that support health behaviors; develop group norms that value a healthy lifestyle; develop the essential skills necessary to adopt, practice, and maintain health-enhancing behaviors. Advanced Health & Wellness provides students with an in-depth study of promoting personal health and wellness, physical activity, healthy eating, promoting safety and preventing unintentional injury and violence, promoting mental and emotional health, a tobacco, alcohol, and other drug-free lifestyle, and promoting human development and family health. The scientific components of health and wellness, health issues and concerns, health risk appraisals, individual wellness plans, health promotion and health careers are expanded and explored within the context of the course. This course provides students with the advanced knowledge and skills of health and wellness core concepts, analyzing influences, accessing information, interpersonal communication, decision-making and goal-setting skills, health-enhancing behaviors, and health and wellness advocacy skills.



## SCIENCE DEPARTMENT

### **3102-Physical Science** (1 Semester, 1 Credit per Semester) (9-12)

1. Prerequisite—none
2. Textbook—*none*
3. Class Fee—\$

Physical Science is a course in which students develop problem solving skills and strategies while performing laboratory and field investigations of fundamental chemical, physical, and related Earth and space science concepts and principles that are related to students' interests and that address everyday problems. Students enrolled in Physical Science will explore the structure and properties of matter, the nature of energy and its role in chemical reactions and the physical and chemical laws that govern Earth's interconnected systems and forces of nature. Counts as science for General Diploma only.

### **3108-Integrated Chemistry-Physics** (2 Semesters, 1 Credit per Semester) (10-12)

1. Prerequisite—Algebra I (may be taken concurrently with this course)
2. Textbook—*none*
3. Class Fee—\$8.00

Integrated Chemistry-Physics is a course focused on the following core topics: constant velocity; uniform acceleration, Newton's Laws of motion (one dimension); energy; particle theory of matter; describing substances; representing chemical change; electricity and magnetism; waves; nuclear energy. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation by designing and conducting investigations guided by theory and by evaluating and communicating the results of those investigations according to accepted procedures. This course counts as science (physical) for all diplomas.

### **3044-Earth & Space Science I (L)** (2 Semesters, 1 Credit per Semester) (10-12)

1. Prerequisite—none
2. Class Fee—\$4.00

*Earth & Space Science I* is a course focused on the following core topics: universe; solar system; Earth cycles and systems; atmosphere and hydrosphere; solid Earth; Earth processes. Students analyze and describe earth's interconnected systems and examine how earth's materials, landforms, and continents are modified across geological time. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation by designing and conducting investigations guided by theory and by evaluating and communicating the results of those investigations according to accepted procedures.

### **3030-Life Science** (1 Semester, 1 Credit per Semester) (9-12)

1. Prerequisite—none
2. Textbook—*none*
3. Class Fee—\$

Life Science is an introduction to biology course. Students develop problem-solving skills and strategies while performing laboratory and field investigations of fundamental biological concepts and principles. Students explore the functions and processes of cells within all living organisms, the sources and patterns of genetic inheritance and variation leading to biodiversity, and the relationships of living organisms to each other and to the environment as a whole. Counts as science for General Diploma only.

### **3024G-Biology I (L) (General)** (2 Semesters, 1 Credit per Semester) (9-12)

1. Prerequisite—none
2. Textbook—*Biology*
3. Class Fee—\$7.00

Biology, through the study of the full spectrum of organisms, acquaints students with many areas of life science. These areas include cell biology, ecology, photosynthesis, cellular respiration, genetics, classification, and structure and function of specific organisms. Knowledge in these areas is gained through the use of online textbook, lecture, class discussion, and laboratory investigations. Students are also expected to develop their skills in observation and interpretation through laboratory investigations. The course is a Core 40 course but does not count toward an Academic Honors diploma. This course is designed for non-college bound students and does not meet requirements for Chemistry I or Biology II.

### **3024-Biology I (L) (Academic) (2 Semesters, 1 Credit per Semester) (9-12)**

1. Prerequisite—none
2. Textbook—*Biology*
3. Class Fee—\$7.00

Biology, through a study of the full spectrum of organisms, acquaints students with many areas of life science. Some of these areas include plant and animal structure and function, classification, genetics, ecology, photosynthesis, cellular respiration, and history of biology. Knowledge in these areas is gained through the use of online textbook, lecture, class discussion, research projects, and laboratory investigations. Students are also expected to develop their skills in observation and interpretation through the laboratory investigations done throughout the year.

### **3026-Biology II (L) (2 Semesters, 1 Credit per Semester) (11-12) ACP Option**

1. Prerequisite—Biology I (Academic) Chemistry I
2. Textbook—*none*
3. Class Fee—\$15.00

Biology II is offered to those students who have completed two semesters of Biology I and obtained at least a B average, students must also have completed two semesters of chemistry I with a C or better average. In the first semester, the primary topics of study will be in the areas of cellular biology, genetics and chemistry. During the second semester microbiology, anatomy, physiology, and ecology will be investigated. A considerable amount of time is spent on laboratory investigations and projects. Students will have to use the problem-solving and observation skills acquired in Biology I to be successful. This class is for juniors and seniors and is taken for college credit through Indiana University, L100 Humans in the Biological World 5 credit hours. Students must apply to Indiana University and meet Indiana University's requirements in order to receive the college credit.

### **3064-Chemistry I (L) (2 Semesters, 1 Credit per Semester) (10-12)**

1. Prerequisite—Algebra 1, Biology I
2. Textbook—*none*
3. Class Fee—\$10.00

Chemistry I is a course based on the following core topics: properties and states of matter; atomic structure and the Periodic Table; bonding and molecular structure; reactions and stoichiometry; behavior of gases; thermochemistry; solutions; acids and bases. Students enrolled in Chemistry I compare, contrast, and synthesize useful models of the structure and properties of matter and the mechanisms of its interactions. Instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation by designing and conducting investigations guided by theory and by evaluating and communicating the results of those investigations according to accepted procedures. This course counts as a science (physical) for all diplomas and qualifies as a quantitative reasoning course.

### **3066-Chemistry II (L) (2 Semesters, 1 Credit per Semester) (11-12)**

1. Prerequisite—Chemistry I, Pre-Calculus
2. Textbook—Introductory Chemistry: Atoms First
3. Class Fee—\$12.00

Chemistry II is an extended laboratory, field, and literature investigations-based course. Students enrolled in Chemistry II examine the chemical reactions of matter in living and nonliving materials. Based on the unifying themes of chemistry and the application of physical and mathematical models of the interactions of matter, students use the methods of scientific inquiry to answer chemical questions and solve problems concerning personal needs and community issues related to chemistry. During the first semester, qualified Seniors may take this course for College credit as Elementary Chemistry I, C101/3 hours credit and Elementary Chemistry Laboratory I, C121/2 hours credit through Indiana University's Advance College Project. This course counts as a science for all diplomas and as a quantitative reasoning course.

### **3084-Physics I** (2 Semesters, 1 Credit per Semester) (10-12)

1. Prerequisite—Geometry H, and currently enrolled in Algebra II
2. Textbook—*none*
3. Class Fee—\$2.00

Physics I aids students in synthesizing the fundamental concepts and principles concerning matter and energy through the laboratory study of mechanics, wave motion, heat, light, electricity, magnetism, electromagnetism, and atomic and nuclear physics. Students have opportunities to (1) acquire and awareness of the history of physics and its role in the birth of technology; (2) explore the use of models, theories, and laws in various careers; and (3) cope with physics questions and problems related to personal needs and social issues. Students will build several projects that demonstrate the topics covered in class. Qualifies as a quantitative reasoning course.

### **3086-Physics II** (2 Semesters, 1 Credit per Semester) (11-12)

1. Prerequisite—Physics I or Pre calculus
2. Textbook—*Physics*
3. Class Fee—\$2.00

In Physics II students will gain a deeper and more formal understanding of physics. The approach taken in this class will be similar to that of an introductory college course in physics, including both classical and modern physics. Knowledge of algebra and basic trigonometry is required for the course and the basic ideas of calculus may be introduced in connection with physical concepts. Students will over Newtonian mechanics, fluid mechanics and thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics. Throughout this course students will be required to keep a detailed portfolio of their lab work, including all data and observations. This course may be available for AP credit. Qualifies as a quantitative reasoning course.

### **3012—AP Environmental Science(L)** (2 Semesters, 1 Credit per Semester) (11-12)

1. Prerequisite—Algebra II (may be taken concurrently) and two of the following science courses: Biology, Chemistry, Physics, or Earth & Space Science
2. Textbook—*Living in the Environment*
3. Class Fee—\$5.00

Students enrolled in AP Environmental Science investigate the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Students will explore ecosystems, population dynamics, pollution, climate change, and natural resource management. College credit can be earned through the AP exam at the end of the course. Qualifies as a quantitative reasoning course.

### **3092—Advanced Science, Special Topics - Astronomy** (1 Semesters, 1 Credit per Semester) (10-12)

1. Prerequisite—Biology
2. Textbook—*none*
3. Class Fee—*none*

Students enrolled in this course engage in an in depth study of the universe and its parts. Topics include the solar system, stars, galaxies, and the large scale structure of the universe. Students will learn about the formation of the universe and its long term fate. Students will have opportunities to make astronomical observations at various points throughout the year and to use these observations to create a research project and presentation for a final. This course counts as a science credit for all diplomas.

### **3092 Advanced Science, Special Topics - Survey of Good Manufacturing Practices**

(1 semester, 1 credit) (11, 12) Dual credit program with Ivy Tech Community College (3 hrs credit)

1. Prerequisites—Biology I, Algebra II (may be taken concurrently)
2. Textbook—*The Code of Federal Regulations Title 21--Food and Drugs*
3. Class Fee—none

Students will be enrolled in BIOT 102 Survey of Good Manufacturing Practices. Students will be introduced to the basics of manufacturing within the biotechnology industry, gaining an understanding of the work environment. Students will learn a brief history of the Food and Drug Administration then will learn how the practices set forth by the FDA control the work environment and the behavior of workers in the field. This course prepares students for the most basic entry level position in this regulated industry.

### **3092—Advanced Science, Special Topics - Survey of Biotechnology** (1 semester, 1 credit)

(11, 12) Dual credit program with Ivy Tech Community College (3 hrs credit)

1. Prerequisites - Biology I, Algebra II (may be taken concurrently)
2. Textbook - *Biotechnology: Science for the New Millennium*
3. Class Fee - none

Students will be enrolled in BIOT 100 Survey of Biotechnology (Ivy Tech dual credit course). This course presents an in-depth overview of biotechnology emphasizing basic molecular techniques of manipulating DNA; processes involved in protein purification and analysis; microbial, plant, aquatic, medical and animal biotechnology; regulations and ethics of the biotechnology industry

### **5276—Anatomy and Physiology** (2 Semesters, 1 Credit per Semester) (11-12)

1. Prerequisite—Biology with a C average
2. Textbook—*none*
3. Class Fee—\$15.00

Anatomy and Physiology is the study of the structure and function of the human body. The focus of Anatomy & Physiology is for students to develop an understanding of cells and organs and their relationship to the whole organism. The course will cover the systems of the human body, including skeletal, muscular, circulatory, respiratory, nervous, digestive, integumentary, immune, excretory, endocrine, and reproductive. During the study of the body, a variety of methods will be used which include laboratory activities such as the dissection of preserved specimens, the study of anatomical models and microscope slides. Evaluation of current research, technology and issues related to the health field will be included. Course is for juniors or seniors that have a desire to study healthcare related majors in a college or university. Student must have C average in Honors Biology to take this course. This course counts as a science credit for all diplomas.

## **RESOURCE DEPARTMENT**

Resource Education classes are offered to students qualifying in the required areas of math and English. To qualify, a student must be recommended and formally tested by Joint Services.

## **MULTIDISCIPLINARY**

### **0530-Career Exploration** (2 Semesters, 2 or 3 Credits per Semester) (12)

1. Prerequisite—Senior making adequate progress toward graduation, minimum 2.0 grade point average, good attendance, and providing your own transportation to and from internship site.

The Career Exploration course is for seniors who are serious about intensively researching a given career. Students enrolled in the course will work at a chosen career outside of school for three periods each school day. (If career assignment is for fewer than 5 days per week, student may only earn 2 credits per semester.) The internship allows students to explore a career, create a professional network, and develop important workplace skills for future employment. Students will also meet regularly in the classroom to share experiences, strengthen professional writing skills, and develop a portfolio of their experience to present at the end of the year. Students, once placed on a job site, will be strongly encouraged to remain there for the entire school year. A student who misses more than eight days the first semester may be withdrawn from the class. The class size is limited to 20 students.

**5056—Introduction to Agriculture, Food and Natural Resources** (2 semesters, 1 credit per semester) (9-12)

1. Prerequisites—none

*Introduction to Agriculture, Food and Natural Resources* is highly recommended as a prerequisite to and a foundation for all other agricultural classes. The nature of this course is to provide students with an introduction to the fundamentals of agricultural science and business. Topics to be covered include: animal science, plant and soil science, food science, horticultural science, agricultural business management, landscape management, natural resources, agriculture power, structure and technology, leadership development, supervised agricultural experience and career opportunities in the area of agriculture, food and natural resources. Counts as a Directed Elective or Elective for all diplomas.

**0522-Career Information and Exploration/Health and Wellness** (1 Semester, 1 Credit per Semester)

1. Prerequisite—none
2. Textbook—Exploring the World of Work
3. Workbook—none
4. Class Fee—none

This is one semester course typically taken by sophomores along with Health and Wellness Education. The course is designed to introduce students to the world of work and addresses the framework of career development; self-assessment of interests, skills and values; finding and obtaining employment; interviewing and resumes; workplace ethics; and financial planning.

**0522J—JAG - Jobs for America's Graduates** (2 semesters, 1 credit per semester) (11–12)

1. Prerequisite—none

Jobs for America's Graduates (JAG) is a program open to Juniors and Seniors only. JAG is designed to raise student aspirations, teach teamwork and leadership, and instill workplace values while helping young people successfully transition through and beyond high school. The program also works to increase the capacity of communities to assist graduates with effective school-to-life transitions.

**0500-Basic Skills Development** (1 Semester, 1 Credit per Semester for a total of 8 credits) (9-12)

1. Prerequisite—none
2. Textbook—none
3. Workbook—none
4. Class Fee—none

*Basic Skills Development* is a multidisciplinary course that provides students continuing opportunities to develop basic skills including: (1) reading, (2) writing, (3) listening, (4) speaking, (5) mathematical computation, (6) note taking, (7) study and organizational skills, and (8) problem-solving skills, which are essential for high school course work achievement. Determination of the skills to be emphasized in this course is based on Indiana's standards, individual school corporation general curriculum plans, and the student's Individualized Education Programs (IEP) or other individualized plans. Skills selected for developmental work provide students with the ability to continue to learn in a range of different life situations.

**0500L-Life Skills** (non-credit) (9-12)

1. Prerequisite—none
2. Textbook—none
3. Workbook—none
4. Class Fee—\$10.00

A Life Skills course is available to students meeting the criteria for non-diploma status as determined by the case conference committee. Determination of the skills to be emphasized in this course is based on Indiana's standards, individual school corporation general curriculum plans, and the student's Individual Education Programs (IEP) or other individualized plans. Skills selected for developmental work provide students with the ability to continue to learn in a range of different life situations.

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