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# SOUTH DECATUR JR-SR HIGH SCHOOL

Curriculum Guide 2021-2022  
Class of 2023 & Beyond



## A NOTE TO STUDENTS AND PARENTS

Choosing your high school course of study is an important decision. Choices you make now will either expand or limit your future opportunities. This Curriculum Guide was prepared to help you navigate your way through the scheduling process and choose the curriculum that is best suited to your interests, strengths, and goals. Read the important information provided in this guide, discuss options, and ask questions of teachers and counselors. Parents, you are encouraged to be actively involved in students' course selections and are welcome to schedule a conference with your counselor. We strive to meet with every student in grades 8-11 to help them plan for the upcoming school year. Course requests will be sent home for parent review and approval to help you be included in this process.

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## SCHEDULING PROCESS

### GENERAL INFORMATION AND DEADLINES

Scheduling is a complicated task. When completed, changes are difficult to make. Therefore, scheduling and drop/add deadlines must be enforced. Initial course requests for the 2020-2021 school year are due to the Guidance Office by the date announced during your class meeting.

When school begins in the fall, requests for schedule changes may be made DURING THE FIRST FIVE DAYS OF SCHOOL. Changes will be approved during this time period for academic reasons only. Changes made after this time will be those resulting from teacher, counselor, or administrator recommendations. Any other changes will result in a withdrawal failure “WF” on the student’s transcript. Changes will be made second semester only during the FIRST FIVE DAYS as well for academic reasons only.

### HOW TO COMPLETE THE COURSE REQUEST FORM

Course request forms should be completed with several things in mind including the student’s diploma track, strengths, weaknesses, interests, and future goals. We suggest starting with required classes (such as English, math, science, etc) by choosing the most appropriate option. Next, once required courses have been selected, move to extra diploma requirements such as Spanish or activities such as choir. Finish out any blanks on the request form with electives that play into student strengths, interest, and future career goals. Please also fill out the extra elective blanks so that if a schedule conflict arises, we have options to look into that the student actually wants as an option in their schedule. Please see the next section of the curriculum guide for help with these topics.

## GUIDANCE RESOURCES

### HELPFUL LINKS

Many elements enter into course and thus career decisions. It is wise to explore your options thoroughly in order to make the most informed decisions leading to the best outcomes for your future. Listed below are some valuable resources to help you along on your decision-making journey:

[Learn More Indiana](#)

[Indiana Career Explorer](#)

[The Occupational Outlook Handbook](#)

[Twenty-first Century Scholars](#)

[The College Board](#)

[ACT](#)

[NCAA Eligibility Center](#)

### CHOOSING A DIPLOMA

Your first decision when scheduling your course requests is to decide which diploma you intend to pursue:

Core 40

Core 40 with Academic Honors

Core 40 with Technical Honors

Core 40 with Academic and Technical Honors

In making this decision, keep in mind that completion of a Core 40 diploma is an Indiana graduation requirement. Indiana's Core 40 curriculum provides the academic foundation all students need to succeed in college and the workforce. You are encouraged to attempt the most challenging diploma you think you can achieve considering your academic potential, your interests, and your goals. Talk to your teachers and counselors for recommendations. NOTE: The Frank O'Bannon Grant with Academic Honors Diploma (AHD) and the Frank O'Bannon Grant with Technical Honors Diploma (THD) are offered only to Frank O'Bannon Grant recipients who, based on their FAFSA information, have financial need (as determined by the state) and graduate from an eligible Indiana high school with an Academic Honors Diploma or Technical Honors Diploma. Graduating from high school with these diploma type designations does not guarantee financial aid but may provide an incentive to pursue them for some students. For more information please visit the [Indiana Department of Education](#).

## GRADUATION PATHWAYS

Beginning with the class of 2023, students must complete the new “Graduation Pathways” by meeting three requirements in order to graduate from high school.

1. Meet diploma requirements for one of the listed Indiana Diplomas
2. Demonstrate Employability Skills through one of the following:
  - a. *Project-Based Learning Experience*- allows students to gain knowledge and skills by working for an extended period of time to investigate and respond to an engaging question, problem or challenge. Students often make their project work public by explaining, displaying, or presenting it to people beyond the classroom.
  - b. *Service-Based Learning Experience*- integrates meaningful service to enrich and apply academic knowledge, teach civic and personal responsibility and strengthen communities.
  - c. *Work-Based Learning Experience*- a strategy to reinforce academic, technical, and social skills learned in the classroom through collaborative activities with employer partners.
3. Complete 1 Post-Secondary Ready Competency:
  - Fulfill all requirements of either the Academic or Technical Honors Diploma
  - Earn minimum ACT score
  - Earn minimum SAT score
  - Earn minimum SFQT score on the ASVAB for placement into one of the branches of the US Military
  - Earn State- and Industry-recognized Credential or Certification
  - Complete a Federally-recognized Apprenticeship
  - Fulfill Career-Technical Education Concentrator Requirements
    - Must earn a C average or higher in at least 6 high school credits in a career sequence
  - Complete 3 AP or Dual Credit Courses
    - Must earn a C average or higher in those 3 courses
  - Complete a locally created pathway \*COMING SOON\*
  - Qualify for a waiver\*

## GRADUATION PATHWAYS WAIVER OPTION

In order for a student to qualify for a Post-Secondary Ready Competency Waiver, they must complete ALL of the following:

- Criteria 1: At least 3 postsecondary readiness competencies attempted by the end of senior year
- Criteria 2: GPA requirement met (Average of “C” in 34 core required credits)
- Criteria 3: Attendance requirement met at 95% average over 4 years
- Criteria 4: Met all state & local graduation requirements
- Criteria 5: Demonstrate post-secondary planning (i.e. college acceptance, workforce entry, military enlistment)

## THE CORE 40 DIPLOMA OPT-OUT PROCESS

For some students, circumstances make completion of a Core 40 diploma challenging. If the decision is made to “opt-out” of Core 40, the student is required to complete the course and credit requirements for a general diploma. This decision should not be made lightly, and the student and parent(s) must understand that, as a general rule, without a Core 40 diploma:

- Students may not be prepared to pass the Indiana End-of-Course Assessments required for graduation.
- Students may not be admitted to most four-year colleges but could attend a four-year college via transfer from Ivy Tech and/or Vincennes University.
- Some students may be less prepared for and less competitive in the workplace.

The following conditions may trigger a discussion about opting-out of a Core 40:

- Parent request for student to be exempted from Core 40 curriculum
- The student does not pass at least three (3) courses required to graduate with a Core 40
- The student scores at or lower than the 25<sup>th</sup> percentile on their first attempt at their graduation year’s graduation qualifying exam.

In any case, to graduate with less than Core 40, the following formal “opt-out” process must be completed:

- The student, the student’s parent/guardian, and the student’s counselor (or another staff member who assists students in course selection) meet to discuss the student’s progress.
- The student’s Graduation Plan (including four year course plan) is reviewed.
- The student’s parent/guardian determines whether the student will achieve greater educational benefits by completing the general curriculum or the Core 40 Curriculum

## STATE OF INDIANA GRADUATION EXAMS

Beginning with the class of 2023, the End of Course Assessments and ISTEP+ 10 will be phased out. Students in this graduating class and beyond will be assessed by a College Entrance Exam such as the SAT or ACT. More information will be on scores will come from the Indiana Department of Education.

## CERTIFICATE OF COMPLETION

Through the IEP process, it may be determined that a student needs to follow the Certificate of Completion track to complete high school. This is a case conference option that places students in applied classes that move toward the standards of the course versus general education classes that meet the standards of the course. Students will always be given the opportunity to pursue a diploma first. Students pursuing the Certificate of Completion must still work towards 40 credits in a structured format that is outlined by the Indiana Department of Education and which will be available in the student’s IEP meeting in which the Certificate of Completion is discussed. These 40 credits include 10 credits that work towards building the student’s employability skills post-high school. Students must also submit a Transition Portfolio that will also be discussed in their IEP case conference.

## SPECIAL COURSE INFORMATION

### C4: COLUMBUS AREA CAREER CONNECTION

Juniors and seniors interested in Career and Technical Education (CTE) who have established satisfactory attendance, discipline, and academic records at South Decatur may attend the C4 Columbus Area Career Connection. C4 offers many quality programs in the following vocational areas:

- Communications
  - 3D Computer Illustration and Graphics
  - Interactive Media and Graphic Design & Layout
  - Radio and Television
- Computer Technology
  - Computer Technology Support
  - Networking Fundamentals
  - Infrastructure of the Internet
- Construction Engineering Technology
  - Architectural Drafting and Design
  - Construction Technology
- Engineering Manufacturing Technology
  - Mechanical Drafting and Design
  - Precision Machining
  - Welding Technology
- Health Sciences
  - Dental Careers
  - Veterinary Careers
- Human Services
  - Early Childhood Education
  - Education Professions
  - Cosmetology
  - Culinary Arts
- Protective Services
  - Criminal Justice
- Transportation
  - Automotive Services Technology

In addition, opportunities to earn dual credit exist in most programs, making completion of a Core 40 with Technical Honors Diploma a possibility for motivated students. For further information about Indiana's Approved College and Career Pathways, please visit the information on the [Indiana Department of Education's College & Career Pathways](#).

## DUAL CREDIT COURSES

Dual credit is the term given to courses in which high school students have the opportunity to earn both high school and college credits simultaneously. Most dual credit courses have prerequisites, such as test scores, that students must meet in order to qualify for the credit. Dual credit course offerings are subject to change.

Dual Credit Courses Currently Available at South Decatur and North Decatur are listed below. Please note that dual credit course availability does change yearly based on requirements from the IDOE and the universities we partner with for these courses. No class is guaranteed to be dual credit each year.

High School	Course College	Course Credits
Finite Math	MATH 135	3
Pre-Calculus	MATH 136/137	6
Calculus	MATH 211	4
Spanish 3	SPAN 101/102	8
Spanish 4	SPAN 201/202	6
US History AP	HIST 101/102	6
Psychology	PSYC 101	3
Government AP	POLS 101	3
Agriculture Power, Structure, & Tech	AGRI 106	3
Animal Science	AGRI 103	3
Food Science	AGRI 104	3
Natural Resource Management	AGRI 115	3
Landscape Management	AGRI 164	3
Agribusiness Management	AGRI 102	3
Adv Life Science: Animals	AGRI 107	3
Adv Life Science: Plants	AGRI 109	3
Biology II	BIOL 101	3
Chemistry AP	CHEM 101	3
Medical Terminology	HLHS 101	3
Health Careers I	HLHS 100	3
Health Careers II	HLHS 107	3
Education Professions I	EDUC 101	3
PLTW Intro to Engineering Design (ND)	DESN 101/113	6
PLTW Principles of Engineering (ND)	DESN 104	3
PLTW Digital Electronics (ND)	EECT 112	3
PLTW Civil Engineering (ND)	DESN 105	3
Digital Design	VISC 115	3
Visual Communication	VISC 102	3

As we work to grow our dual credit program, courses could be added from one school year to the next. You will be notified if a course you are in becomes dual credit. Dual credit also is determined by the



credentials of the teacher who is teaching the course. If a teacher change occurs, this could affect dual credit availability as well.

### AP: ADVANCED PLACEMENT COURSES

The College Board's Advanced Placement courses are college-level classes in a wide variety of subjects that you can take while still in high school. They offer you challenging course work and a taste of what college classes are like. AP courses can help you acquire the skills and habits you'll need to be successful in college. You'll improve your writing skills, sharpen your problem-solving abilities, and develop time management skills, discipline, and study habits. Most four-year colleges in the United States and colleges in more than 60 other countries give students credit, advanced placement, or both on the basis of AP Exam scores. AP classes are subject to change.

AP Courses currently available at South Decatur:

- AP Calculus AB
- AP Biology
- AP Physics
- AP Chemistry
- AP Microeconomics
- AP Government and Politics
- AP US History

### WEIGHTED COURSES

The Decatur County Community School Board of Education approved a weighted system of grades in selected upper-level courses beginning with the 2007-2008 school year. The following courses are given additional point values in the calculation of the student's grade point average:

- Any Advanced Placement (AP) course
- Dual Credit Senior English
- Any fourth-year world language course
- Third and Fourth year of PLTW (must complete year one and two)

One additional grade point shall be added to the standard grade points awarded for each semester grade at or above a C- in each of the above listed courses.

# MASTER LIST OF COURSES

## AGRICULTURAL EDUCATION

5056 Introduction to Agriculture, Food, and Natural Resources Year 8-12

Introduction is a highly recommended as a prerequisite and foundation for all other agricultural classes. The nature of this course is to provide students with an introduction to careers and the fundamentals of agricultural science and business.

5228 Supervised Agricultural Experience Summer 8-11

*Prerequisite: Introduction to Agriculture, Food, and Natural Resources*

Supervised Agricultural Experience (SAE) is designed to provide students with opportunities to gain experience in the agriculture field(s) in which they are interested. Students should experience and apply what is learned in the classroom, laboratory, and training site to real-life situations.

5008 Animal Science/AGRI 103 Year Dual Credit 9-12

*Prerequisite: Introduction to Agriculture, Food, and Natural Resources or teacher permission*

This class provides students with an overview of the field of animal science. Students participate in a large variety of activities and laboratory work including real and simulated animal science experiences and projects.

5088 Agriculture Power, Structure, and Technology / AGRI 106 Year Dual Credit 9-12

*Prerequisite: Introduction to Agriculture, Food, and Natural Resources or teacher permission*

Agricultural Power, Structure, and Technology is a lab intensive course in which students develop an understanding of basic principles of selection, operation, maintenance, and management of agricultural equipment in concert with utilization of safety and technology.

5180 Natural Resources / AGRI 115 Year Dual Credit 10-12

*Prerequisite: Introduction to Agriculture, Food, and Natural Resources or teacher permission*

Natural Resources provides students with a background in natural resource management. Students are introduced to career opportunities in natural resource management and related industries, understanding forest ecology importance, recognizing trees and their products, tree growth and development, forest management, measuring trees, timber stand improvement and urban forestry, soil features, erosion and management practices, conservation practices, water cycles, uses, quality standards, reducing water pollution, conducting water quality tests, watersheds, and its importance to natural resource management, hazardous waste management, native wildlife, waterfowl, wetlands, and fish management, topography map use, management of recreational areas, game bird and animal management, outdoor safety, and weather.

5136 Landscape Management / AGRI 164 Year Dual Credit 10-12

*Prerequisite: Introduction to Agriculture, Food, and Natural Resources or teacher permission*

Landscape Management provides the student with an overview of the many career opportunities in the diverse field of landscape management. Students are introduced to the procedures used in the planning and design of a landscape and the care and use of equipment utilized by landscapers.

5229 Sustainable Energy Alternatives Year 10-12

*Prerequisite: Introduction to Agriculture, Food, and Natural Resources or teacher permission*

Sustainable Energy Alternatives broadens a student's understanding of environmentally friendly energies. In this course students will use a combination of classroom, laboratory, and field experiences to analyze, critique, and

design alternative energy systems. Class content and activities center on renewability and sustainability for our planet.

5070 Advanced Life Science: Animals / AGRI 107 Year Dual Credit 11-12

*Prerequisite: "C" or above in Biology and Chemistry for dual credit*

Advanced Life Science, Animals, is a standards-based, interdisciplinary science course that integrates biology, chemistry, and microbiology in an agricultural context. Students enrolled in this course formulate, design, and carry out animal-based laboratory and field investigations as an essential course component. Students investigate key concepts that enable them to understand animal growth, development and physiology as it pertains to agricultural science. Counts as a science course.

5074 Advanced Life Science: Plants / AGRI 109 Year Dual Credit 11-12

*Prerequisite: "C" or above in Biology and Chemistry for dual credit*

Advanced Life Science: Plants and Soils provides students with opportunities to participate in a variety of activities which includes laboratory work. Students study concepts, principles and theories associated with plants and soils. Students recognize how plants are classified, grown, function and reproduce. Students explore plant genetics and the use of plants by humans. Counts as a science course.

5002 Agribusiness Management / AGRI 102 Year Dual Credit 11-12

*Prerequisite: Introduction to Agriculture, Food, and Natural Resources or teacher permission*

Agribusiness Management is a yearlong course that presents the concepts necessary for managing an agriculture-related business from a local and global perspective.

## BUSINESS, MARKETING, AND INFORMATION TECHNOLOGY

4528 Digital Applications & Responsibility Year 9-12

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.

4518 Introduction to Business Year 9-12

This class introduces students to the world of business, including the concepts, functions, and skills required for meeting the challenges of operating a business in the twenty-first century on a local, national, and/or international scale.

4524 Accounting Fundamentals (previously Intro to Accounting) Year 10-12

Introduction to Accounting introduces the language of business using Generally Accepted Accounting Principles (GAAP) and procedures for proprietorships and partnerships using double-entry accounting. Emphasis is placed on accounting principles as they relate to both manual and automated financial systems. This course involves understanding, analyzing, and recording business transactions and preparing, analyzing, and interpreting financial reports as a basis for decision-making.

4562 Principles of Business Management Year 11-12

Principles of Business Management focuses on the roles and responsibilities of managers as well as opportunities and challenges of ethically managing a business in the free-enterprise system. Students will attain an understanding of management, team building, leadership, problem-solving steps and processes that contribute to the achievement of organizational goals. The management of human and

financial resources is emphasized.

4522	Advanced Accounting	Year	11-12
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Expands on the Generally Accepted Accounting Principles (GAAP) and procedures for proprietorships and partnerships using double-entry accounting covered in Accounting Fundamentals. Emphasis is placed on accounting principles as they relate to both manual and automated financial systems. This course involves understanding, analyzing, and recording business transactions and preparing, analyzing, and interpreting financial reports as a basis for decision-making.

### ENGLISH / LANGUAGE ARTS

1002	English 9	Year	9
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Standard English course for all 9<sup>th</sup> grade students.

1004	English 10	Year	10
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Standard English course for all 10<sup>th</sup> grade students.

1006	English 11	Year	11
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Basic college prep English course for 11<sup>th</sup> grade students.

1090	Composition	Semester 1	11
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*Prerequisite: C average in previous English courses*  
Advanced college prep English course for 11<sup>th</sup> grade students. American Literature is the 2<sup>nd</sup> semester.

1020	American Literature	Semester 2	11
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*Prerequisite: C average in previous English courses*

1008	English 12	Year	12
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Basic college prep English course for 12<sup>th</sup> grade students.

1098	Advanced Composition	Semester 1	12
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*Prerequisite: C average in previous English courses*  
Advanced college prep English course for 12<sup>th</sup> grade students. English Literature is the 2<sup>nd</sup> semester.

1030	English Literature	Semester 2	12
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*Prerequisite: C average in previous English courses*

1092	Creative Writing	Semester	10-12
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The study and application of rhetorical writing strategies for prose and poetry. Using the writing process, students demonstrate a command of vocabulary, the nuances of language, English language conventions, awareness of audience, purposes for writing, and style of their own writing. This course encourages students to imaginatively express themselves beyond traditional methods of writing.

1094	Expository Writing	Semester	10-12
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The study and application of the various types of informational writing intended for a variety of audiences. Using the writing process, students demonstrate a command of vocabulary, English language conventions, research and organizational skills, awareness of audience, purposes for writing, and style. Students will write to inform, explain, evaluate, analyze, persuade, inspire, and entertain.

1060 Etymology Semester 1 10-12  
Etymology is the study and application of the derivation of English words and word families from their roots in ancient and modern languages (Latin, Greek, Germanic, Romance Languages).

1076 Speech Semester 2 10-12  
Speech is the study and application of the basic principles and techniques of effective oral communication. Students deliver focused and coherent speeches that convey clear messages, using gestures, tone, and vocabulary appropriate to the audience and purpose.

1086 Student Publications (Newspaper/Yearbook) Year 11-12  
*Prerequisite: computer skills (Publisher, Photoshop, etc), good spelling and writing habits, and a B average in English or teacher recommendation*  
Students demonstrate their ability to do journalistic writing and design for high school publications, including school newspapers and yearbooks, and a variety of media formats.

1010 Language Arts Lab Semester 11-12  
This class provides remediation for students who need to pass the ELA portion of ISTEP+ after receiving a DNP score as a sophomore.

#### FAMILY AND CONSUMER SCIENCES

5394 Preparing for College and Careers Semester 9-12  
Preparing for College and Careers addresses the knowledge, skills, and behaviors all students need to be prepared for success in college, career, and life. *This course is paired with Health & Wellness during a student's 9<sup>th</sup> grade year.*

5364 Interpersonal Relationships Semester 1 9-12  
Interpersonal Relationships addresses the knowledge, skills, attitudes and behaviors all students need to participate in positive, caring, and respectful relationships in the family and with individuals at school, in the community, and in the workplace.

5366 Human Development and Wellness Semester 2 9-12  
Human Development and Wellness addresses development and wellness of individuals and families throughout the life cycle.

5342 Nutrition and Wellness Semester 1 9-12  
This class enables students to realize the components and lifelong benefits of sound nutrition and wellness practices and empowers them to apply these principles in their everyday lives. Students gain experience cooking in a classroom kitchen.

5340 Advanced Nutrition and Wellness Semester 2 9-12  
*Prerequisite: Nutrition and Wellness*  
Advanced Nutrition and Foods is a sequential course that builds on concepts from Nutrition and Wellness. This course addresses more complex concepts in nutrition and foods, with emphasis on contemporary issues, or on advanced special topics.

5362 Child Development Semester 1 9-12  
Child Development and Parenting addresses the knowledge, skills, attitudes, and behaviors associated with supporting and promoting optimal growth and development of infants and children.

5360 Advanced Child Development Semester 2 9-12

*Prerequisite: Child Development and Parenting*

Advanced Child Development is a sequential course that addresses more complex issues of child development and early childhood education with emphasis on guiding physical, social, emotional, intellectual, moral, and cultural development throughout childhood, including school age children.

5408 Education Professions I Year Dual Credit 11-12

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.

## FINE ARTS

### VISUAL ARTS

Due to the way we have to set art up in our schedule, the course description is not completely accurate. Students are able to gain exposure to all topics on a yearly basis and are able to advance as they move through art.

4000	Introduction to Two-Dimensional Art	Art 1.1	Semester 1	9-12
4002	Introduction to Three-Dimensional Art	Art 1.2	Semester 2	9-12
4004	Advanced Two-Dimensional Art	Art 2.1	Semester 1	10-12
4006	Advanced Three-Dimensional Art	Art 2.2	Semester 2	10-12
4060	Drawing	Art 3.1	Semester 1	11-12
4064	Painting	Art 3.2	Semester 2	11-12
4040	Ceramics	Art 4.1	Semester 1	12
4044	Sculpture	Art 4.2	Semester 2	12

4082 Digital Design Semester 1 Dual Credit 10-12

This class incorporates desktop publishing, multi-media, digitized imagery, computer animation, and web design to create various computer based projects.

4086 Visual Communication Semester 2 Dual Credit 10-12

Students in Visual Communications create print media utilizing graphic design, typography, illustration, and image creation with digital tools and computer technology.

4062 Photography Yearbook Year 11-12

Students in photography engage in sequential learning experiences that encompass art history, art criticism, aesthetics, and production and lead to the creation of portfolio quality works, creating photographs, films, and videos utilizing a variety of digital tools and dark room processes.

### Music

4206 Music History and Appreciation Semester 1 9-12

Students receive instruction designed to explore music and major musical styles and periods through understanding music in relation to both Western and Non-Western history and culture.

4208 Music Theory and Composition Semester 2 9-12

Students develop skills in the analysis of music and theoretical concepts.

4182 Concert Choir Year 9-12

4180 Cougar Company Year 9-12  
*Audition is required to join Cougar Company.*

4160 Concert Band Year 9-12  
*Students are placed into either beginning or the more advanced Symphonic based upon teacher assessment of skill level.*

4162 Guitars Semester 9-12  
Beginning Guitar Class is a one-semester course that offers instruction for beginning guitar players through emphasizing playing techniques, reading music notation, crafting melodies, and playing chords. Students will learn songs in a variety of styles and will have the opportunity to prepare songs for performance. Instruments will be provided.

### HEALTH SCIENCES

5282 Health Sciences Education I: Health Careers Year Dual Credit 11-12  
Health Science Education is a course designed for any student interested in a career in healthcare, including nursing, animal care, public health, emergency services, etc. It provides a survey of topics every health professional should know, including an overview of our healthcare delivery system, anatomy and physiology, the laws and ethics governing healthcare practice, medical terminology, effective communication, and principles of infection control. This course is designed and organized to provide skills and learning opportunities associated with each student's individual career objectives.

5284 Health Sciences Education II: Certified Nursing Assistant Year Dual Credit 12  
Health Science II: Certified Nursing Assistant is a course designed to provide students with classroom and clinical site training in the duties and responsibilities of a Certified Nursing Assistant, or CNA. Students spend a semester learning essential content and skills that will then be applied second semester to patient care at a designated clinical site. This course includes 75 hours of clinical site work. At the end of this time, pending completion of all course requirements, students are eligible to take their Certified Nursing Assistant exam and, upon passing, receive CNA certification that will enable them to work as CNAs across the state of Indiana. For students wishing to work as CNAs or for those wanting to pursue careers in medicine, this course is an excellent first step.

5274 Medical Terminology Year Dual Credit 10-12  
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 taught within the context of body systems.  
**\*\*Offered years in which the graduation year is an even year \*\***

5276 Anatomy and Physiology Year 11-12  
*Prerequisite: Biology I and Chemistry I*  
Students learn about the structure and function of the systems of the human body.  
**\*\*Offered years in which the graduation year is an odd year \*\***

### MATHEMATICS

2520 Algebra I Year 8-12

**\*\*8th grade with recommendation and qualifying standardized test scores\*\***

2516 Algebra Lab Year 9-12

This course is a mathematics support course for Algebra I. 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. This class does count as a Math course for General Diploma track only. It is an Elective course for all other diploma tracks.

2532 Geometry Year 9-12

*Prerequisite: Algebra I*

2522 Algebra II Year 10-12

*Prerequisite: Algebra I and Geometry (May be taken concurrently with Geometry with As in Algebra I and with teacher permission)*

2560 Mathematics Lab Year 10-12

This class provides remediation for students who need to pass the math section of the ISTEP+ 10 after receiving a failing score.

4512 Business Math Year 11-12

*Prerequisite: Algebra I, Geometry, & Algebra II*

Business Math is a 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. A solid understanding of math including algebra, basic geometry, statistics, and probability provides the necessary foundation for students interested in careers in business and skilled trade areas.

2530 Finite Math/ MATH 135 Year Dual Credit 11-12

*Prerequisite: Algebra I, Geometry, & Algebra II*

Finite is a course designed for students who will undertake higher-level mathematics in college that may not include calculus. Finite Math is made up of five strands: Sets, Matrices, Networks, Optimization, and Probability.

2564 Pre-Calculus/ MATH 136 & 137 Year Dual Credit 11-12

*Prerequisite: Algebra I, Geometry, & Algebra II with a C or better*

2562 AP Calculus AB / MATH 211 Year DC/Weighted 12

*Prerequisite: Algebra I, Geometry, Algebra II, & Pre-Calculus with a C or better*

### PHYSICAL EDUCATION AND HEALTH

All students are required to complete two semesters of physical education. This can be accomplished through the two semesters of standard physical education, by adding a semester of Elective PE to Physical Education I, or through participation in an IHSAA sanctioned sport and completion of the Alternative PE Packet.

3542 Physical Education I Semester 9-12

3544 Physical Education II Semester 9-12

3506 Health and Wellness Education Semester 9-12

This course is required by the state of Indiana. It is scheduled during a student's 9<sup>th</sup> grade year along



with Preparing for College and Careers.

3560 Elective Physical Education Semester/Year 9-12  
This course is designed for students who have completed at least one semester of regular Physical Education and would like to take more than the required two PE credits as part of their high school course selection.

### PROJECT LEAD THE WAY

#### BIOMEDICAL

5218 PLTW Principles of the Biomedical Sciences Year 9-12  
Principles of the Biomedical Sciences provides an introduction to this field through —hands-on|| projects and problems.

5216 PLTW Human Body Systems Year 10-12  
*Prerequisite: Principles of Biomedical Sciences*  
Human Body Systems is a course designed to engage students in the study of basic human physiology and the care and maintenance required to support the complex systems.

5217 PLTW Medical Interventions Year Weighted 11-12  
*Prerequisite: Principles of Biomedical Sciences and Human Body Systems*  
Medical Intervention is a course that studies medical practices including interventions to support humans in treating disease and maintaining health. \*\*Offered years in which the graduation year is an even year \*\*

5219 PLTW Biomedical Innovations Year Weighted 12  
*Prerequisite: Principles of Biomedical Sciences, Human Body Systems, and Medical Intervention*  
Biomedical Innovations is a capstone course designed to give student teams the opportunity to work with one or more mentors from the scientific and/or medical community. \*\*Offered years in which the graduation year is an odd year \*\*

#### ENGINEERING

4812 PLTW Introduction to Engineering Design / DESN 102 Year Dual Credit 9-12  
Introduction to Engineering Design is an introductory course which develops student problem solving skills with emphasis placed on the development of three-dimensional solid models.

4814 PLTW Principles of Engineering / ADMF 115 Year Dual Credit 10-12  
Principles of Engineering is a broad-based survey course designed to help students understand the field of engineering and engineering technology and its career possibilities.

4826 PLTW Digital Electronics / ADMF 113 Year DC/Weighted 11-12  
Digital Electronics Technology is a course of study in applied digital logic that encompasses the design and application of electronic circuits and devices found in video games, watches, calculators, digital cameras, and thousands of other devices.

4820 PLTW Civil Engineering and Architecture / DESN 105 Year DC/Weighted 11-12  
Introduces students to the fundamental design and development aspects of civil engineering and architectural planning activities. Application and design principles will be used in conjunction with mathematical and scientific knowledge. Computer software programs should allow students opportunities to design, simulate, and evaluate the construction of buildings and communities.

## COMPUTER SCIENCE

4803 PLTW Computer Science Essentials Year 9-12

Introduction to Computer Science allows students to explore the world of computer science. Students will gain a broad understanding of the areas composing computer science. Additionally, there is a focus on the areas of computer programming, gaming/mobile development, and artificial intelligence/robotics.

5253 PLTW Computer Science III: Cybersecurity Year 10-12

Computer Science III: Cybersecurity introduces the secure software development process including designing secure applications, writing secure code designed to withstand various 69 Indiana Department of Education High School Course Titles and Descriptions types of attacks, and security testing and auditing. It focuses on the security issues a developer faces, common security vulnerabilities and flaws, and security threats. The course explains security principles, strategies, coding techniques, and tools that can help make software fault tolerant and resistant to attacks.

## SCIENCE

3024 Biology I Year 9-10

Biology I is a course based on the following core topics: cellular chemistry, structure and reproduction; matter cycles and energy transfer; interdependence of organisms; molecular basis of heredity; genetics and evolution.

3108 Integrated Chemistry-Physics Year 10-12

*Prerequisite: Algebra I (prior to or concurrently)*

Integrated Chemistry-Physics is a course focused on the following core topics: motion and energy of macroscopic objects; chemical, electrical, mechanical and nuclear energy; properties of matter; transport of energy; magnetism; energy production and its relationship to the environment and economy.

3064 Chemistry I Year 10-12

*Prerequisite: Biology I and Algebra I with a C- or better*

Students enrolled in Chemistry I compare, contrast, and synthesize useful models of the structure and properties of matter and the mechanisms of its interactions.

3010 Environmental Science Year 11-12

*Prerequisite: Biology I and Chemistry I or Integrated Chemistry & Physics*

Environmental Science is an interdisciplinary course that integrates biology, earth science, chemistry, and other disciplines. Students enrolled in this course conduct in-depth scientific studies of environmental systems, flow of matter and energy, natural disasters, environmental policies, biodiversity, population, pollution, and natural and anthropogenic resource cycles. Students formulate, design, and carry out laboratory and field investigations as an essential course component. Students completing Environmental Science, acquire the essential tools for understanding the complexities of national and global environmental systems.

3092 Zoology Year 11-12

*Prerequisite: Biology I and Chemistry I or Integrated Chemistry & Physics*

This course discusses the branch of biology that deals with animals and animal life, including the study of the structure, physiology, development, and classification of animals. Some of the topics discussed include the classification of animals (taxonomy & phylogeny), invertebrates, including sponges, flatworms, mollusks, insects, arthropods, and echinoderms, and vertebrates, including fishes, amphibians, reptiles, birds, and mammals. Students should expect a demanding daily homework load as well as projects, quizzes, tests, and laboratory write-ups. Laboratory and outdoor experiences complement classroom activities. A high level of understanding in

problem solving and the scientific methods is necessary for success in this course.

3020 AP Biology Year Weighted 11-12

*Prerequisite: Biology I and Chemistry I*

Biology AP is a course based on the content established by the College Board. The major themes of the course include: The process of evolution drives the diversity and unity of life; biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis; living systems store, retrieve, transmit and respond to information essential to life processes; biological systems interact; and these systems and their interactions possess complex properties.

3060 AP Chemistry / CHEM 101 Year DC/Weighted 11-12

*Prerequisite: Chemistry I*

Chemistry AP is a course based on the content established by the College Board. The content includes: (1) structure of matter: atomic theory and structure, chemical bonding, molecular models, nuclear chemistry; (2) states of matter: gases, liquids and solids, solutions; and (3) reactions: reaction types, stoichiometry, equilibrium, kinetics and thermodynamics.

3080 AP Physics I: Algebra-Based Year Weighted 11-12

*Prerequisite: Algebra I*

AP Physics1 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. AP Physics 1: Algebra-based is equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits.

## SOCIAL STUDIES

1570 Geography and History of the World Year 9-12

This course is designed to enable students to use geographical tools, skills and historical concepts to deepen their understanding of major global themes including the origin and spread of world religions; exploration; conquest, and imperialism; urbanization; and innovations and revolutions.

1548 World History and Civilization Year 9-12

This course is designed to emphasize events and developments in the past that greatly affected large numbers of people across broad areas and that significantly influenced peoples and places in subsequent eras. Key events related to people and places as well as transcultural interaction and exchanges are examined in this course.

1518 Indiana Studies Semester 1 10-12

Indiana Studies is an integrated course that compares and contrasts state and national developments in the areas of politics, economics, history, and culture. The course uses Indiana history as a basis for understanding current policies, practices, and state legislative procedures.

1516 Ethnic Studies Semester 2 10-12

Ethnic Studies provides opportunities to broaden students' perspectives concerning lifestyles and cultural patterns of ethnic groups in the United States.

1542 United States History Year 11

United States History is a two-semester course that builds upon concepts developed in previous studies of U.S. History and emphasizes national development from the late nineteenth century into the twenty-first century.

1562 AP United States History / HIST 101/102 Year DC/Weighted 11  
*Prerequisites for AP: "C" or better in English 10 and Geography and History of the World, passed English 10 ECA, and enrolled in Composition I /American Lit*

AP United States History is a course based on content established by the College Board. It focuses on developing students' abilities to think conceptually about U.S. history from approximately 1491 to the present and apply historical thinking skills as they learn about the past.

1532 Psychology/ PSYC 101 Semester 2 Dual Credit 11-12  
 Psychology is the scientific study of mental processes and behavior.

1534 Sociology Semester 1 11-12  
 Sociology allows students to study human social behavior from a group perspective.

1514 Economics Semester 1 12  
 Economics examines the allocation of resources and their uses for satisfying human needs and wants. The course analyzes economic reasoning used by consumers, producers, savers, investors, workers, voters, and government in making decisions.

1564 AP Microeconomics Semester 1 Weighted 12  
*Prerequisites for AP: completion of US History AP or waiver from US History teacher*  
 Microeconomics, Advanced Placement is a course based on content established by the College Board. The course gives students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economics system.

1540 United States Government Semester 2 12  
 United States Government provides a framework for understanding the purposes, principles, and practices of constitutional representative democracy in the United States.

1560 AP United States Government / POLS 101 Semester 2 DC/Weighted 12  
*Prerequisites for AP: completion of US History AP or waiver from US History teacher*  
 Government and Politic: United States, Advanced Placement is a course based on content established by the College Board. Topics include: (1) constitutional underpinnings of United States government, (2) political beliefs and behaviors, (3) political parties, interest groups, and mass media, (4) institutions of national government, (5) public policy, and (6) civil rights and civil liberties.

### WORLD LANGUAGES

2120 Spanish I Year 9-12

2122 Spanish II Year 10-12

*Prerequisite: Spanish I with no semester grade lower than a C.*

2124 Spanish III/ SPAN 101/102 Year Dual Credit 11-12

*Prerequisite: Spanish II with no semester grade lower than a C.*

2126 Spanish IV/ SPAN 201/202 Year DC/Weighted 12

*Prerequisite: Spanish III, and no semester grade lower than a C.*

### MISCELLANEOUS COURSES

0520 Peer Helping Year 11-12

*Prerequisite: Students are selected by an application and interview process*