

Rensselaer Central High School



Freshman

Course Description Options

2018-2019 Academic Year

Freshman Course Description Options for the 2018-2019 School Year

Courses Required for Graduation

English

1002

ENGLISH 9 (ENG 9)

English 9, an integrated English course based on *Indiana's Academic Standards for English/Language Arts in Grade 9* and the *Common Core State Standards for English/Language Arts*, is a study of language, literature, composition, and oral communication with a focus on exploring a wide-variety of genres and their elements. Students use literary interpretation, analysis, comparisons, and evaluation to read and respond to representative works of historical or cultural significance appropriate for Grade 9 in classic and contemporary literature balanced with nonfiction. Students write short stories, responses to literature, expository and persuasive compositions, research reports, business letters, and technical documents. Students deliver grade-appropriate oral presentations and access, analyze, and evaluate online information.

- Recommended Grade Level: Grade 9
- Recommended Prerequisites: None
- Credits: 2 credits, a two-semester course with 1 credit per semester
- Fulfills an English/Language Arts requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

English 9 Honors

The student is exposed to a more intensive study in literature, writing, and grammar. This course is designed for those students who have taken advanced English at the eighth grade level. The purpose is to prepare those students who intend to follow the academic track at the upper levels in English.

Math

2520

ALGEBRA I (ALG I)

Algebra I formalizes and extends the mathematics students learned in the middle grades. Five critical areas comprise Algebra I: Relations and Functions; Linear Equations and Inequalities; Quadratic and Nonlinear Equations; Systems of Equations and Inequalities; and Polynomial Expressions. The critical areas deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

- Credits: A two credit course
- Fulfills the Algebra I/Integrated Mathematics I requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Students pursuing Core 40, Core 40 with Academic Honors, or Core 40 with Technical Honors diploma should receive credit for Algebra I by the end of Grade 9
- Qualifies as a Quantitative Reasoning course for the General, Core 40, AHD, and THD diplomas

GEOMETRY (GEOM)

2532

Geometry formalizes and extends students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Six critical areas comprise the *Geometry* course: Congruency and Similarity; Measurement; Analytic Geometry; Circles; and Polyhedra. Close attention should be paid to the introductory content for the Geometry conceptual category found in the high school INCC The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

- Recommended Prerequisite: Algebra I
- Credits: A two credit course

- Fulfills the Geometry/Integrated Mathematics II requirement for the Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas and counts as a Mathematics Course for the General Diploma

2532H Geometry Honors

Prerequisite: Completion of 2 credits in Algebra 1 in middle school.

ALGEBRA II

(ALG II)

2522

Algebra II builds on work with linear, quadratic, and exponential functions and allows for students to extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

- Recommended Prerequisite: Algebra I
- Credits: A two credit course
- Fulfills the Algebra II/Integrated Mathematics III requirement for the Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas and counts as a Mathematics Course for the General Diploma
- Qualifies as a Quantitative Reasoning course for the General, Core 40, AHD, and THD diplomas

2522H Algebra 2 Honors

Prerequisite: Completion of 2 credits in Algebra I and completion of 2 credits in Geometry in middle school.

Science

BIOLOGY I (L)

(BIO I)

3024

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. 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.

- Recommended Grade Level: 10
- Credits: A two credit course
- Fulfills the life science requirement for the General diploma, Fulfills Biology credit for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

INTEGRATED CHEMISTRY-PHYSICS (L)

3108 *(ICP)*

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. 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

- Recommended Grade Level: 9
- Recommended Prerequisite: Algebra I (may be taken concurrently with this course)
- Credits: A two credit course
- Counts as an Elective for all diplomas
- Fulfills a Core 40 science (physical) course requirement for all diplomas

CHEMISTRY I (L)

(CHEM I)

3064

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.

- Recommended Grade Level: 10, 11, 12
- Recommended Prerequisite: Algebra II (can be taken concurrently)
- Credits: 2 semester course, 1 credit per semester
- Counts as an Elective for all diplomas
- Fulfills a science (physical) course requirement for all diplomas
- Qualifies as a quantitative reasoning course

HEALTH & WELLNESS EDUCATION

(HLTH&WELL)

3506

Health & Wellness, a course based on *Indiana's Academic Standards for Health & Wellness*, provides the basis to help students adopt and maintain healthy behaviors. Health education should contribute directly to a student's ability to successfully practice behaviors that protect and promote health and avoid or reduce health risks. Through a variety of instructional strategies, students practice the development of functional 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. This course includes the application of priority areas in a planned, sequential, comprehensive health education curriculum. Priority areas include: promoting personal health and wellness, physical activity, healthy eating, promoting safety and preventing unintentional injury and violence, promoting mental and emotional health, a tobacco-free lifestyle and an alcohol- and other drug-free lifestyle and promoting human development and family health. 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.

- Recommended Grade Level: 9 – 12
- Recommended Prerequisites: 8th grade health education
- Credits: 1 credit, 1 semester course
- Fulfills the Health & Wellness requirement for the General, Core 40, Core 40 with Academic Honors, Core 40 with Technical Honors diplomas

PHYSICAL EDUCATION I and II (L)

(PHYS ED)

3542

Physical Education I focuses on instructional strategies through a planned, sequential, and comprehensive physical education curriculum which provide 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.

- Recommended Grade Level: 9 – 12
- Recommended Prerequisites: Grade 8 Physical Education
- Credits: 1 credit per semester
- Fulfills part of the Physical Education requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

3544

Physical Education II focuses on instructional strategies through a planned, sequential, and comprehensive physical education curriculum which provide students with opportunities to actively participate in four of the following that were not 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.

- Recommended Grade Level: 9 – 12
- Recommended Prerequisites: Physical Education I
- Credits: 1 credit per semester
- Fulfills part of the Physical Education requirement for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

3542SP Physical Education I Sport (Complete 1 sport season or 1 marching band season for one credit.)

3544SP Physical Education II Sport (Complete 1 sport season or 1 marching band season for one credit.)

Elective Courses 2 Semesters/Full year

ANIMAL SCIENCE

(ANML SCI)

5008

Animal Science is a two semester program that 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. All areas that the students study can be applied to both large and small animals. Topics to be addressed include: anatomy and physiology, genetics, reproduction, nutrition, common diseases and parasites, social and political issues related to the industry and management practices for the care and maintenance of animals while incorporating leadership development, supervised agricultural experience and learning about career opportunities in the area of animal science.

- Recommended Grade Level: Grade 9-12
- Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources
- Credits: 1-3 credit(s) per semester, maximum of 2 semesters, maximum of 6 credits
- Fulfills a Life Science or Physical Science requirement for the General Diploma only or counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
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DIGITAL APPLICATIONS AND RESPONSIBILITY

(DIG APPS RESP)

4528

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.

- Recommended Grade Level: 9, 10, 11, 12
- Recommended Prerequisites: None
- Credits: 2 semester course, 1 credit per semester, 2 credits maximum
- Counts as a Directed Elective or Elective for all diplomas

INTRODUCTION TO AGRICULTURE, FOOD AND NATURAL RESOURCES

(INT AGFNR)

5056

Introduction to Agriculture, Food and Natural Resources is a two semester course that 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.

- Recommended Grade Level: Grade 9
- Recommended Prerequisites: None
- Credits: 1 credit per semester, maximum of 2 semesters, maximum of 2 credits
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- (Formerly Fund. Of Ag.)

INTRODUCTION TO CONSTRUCTION

4792

(INT CONST)

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.

- Recommended Grade Level: Grade 10
- Recommended Prerequisites: None
- Credits: 1 credit per semester, 2 semester maximum, maximum of 2 credit
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

INTRODUCTION TO ENGINEERING DESIGN (Non-PLTW and PLTW)

4812 PLTW

(IED)

Introduction to Engineering Design is an introductory course which develops student problem solving skills using the design process. Students document their progress of solutions as they move through the design process. Students develop solutions using elements of design and manufacturability concepts. They develop hand sketches using 2D and 3D drawing techniques. Computer Aided Design (CAD).

- Recommended Grade Level: Grade 9-12
- Credits: 1 credit per semester, 2 semesters maximum, maximum of 2 credits
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- This course is aligned with the following Post-Secondary courses for Dual Credit

INTRODUCTION TO TRANSPORTATION

4798

(INT TRANS)

Introduction to Transportation is an introductory course designed to help students become familiar with fundamental principles in modes of land, sea, air, and space transportation, including basic mechanical skills and processes involved in transportation of people, cargo and goods. Students will gain and apply knowledge and skills in the safe application, design, production, and assessment of products, services, and systems as it relates to the transportation industries. Content of this course includes the study of how transportation

impacts individuals, society, and the environment. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant transportation related activities, problems, and settings.

- Recommended Grade Level: Grade 9-12
- Recommended Prerequisites: None
- Credits: 1 credit per semester, 2 semesters maximum, maximum of 2 credits
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

1084Y

MASS MEDIA Y
(MASS MEDIA)

Mass Media, a course based on the High School Journalism Standards and the Mass Media and Media Literacy Standards, is the study of the importance of mass media as pervasive in modern life at the local, national, and global levels. It includes a study of the impact of constant and immediate news, entertainment, and persuasive messages on everyday life. Students use course content to become knowledgeable consumers of mass media in preparation for their roles as informed citizens in a democratic society. MASS MEDIA PROJECT for the second credit: Students complete a project, such as a media convergence special report using multiple formats that compare different aspects of a topic of interest or concern. The project demonstrates knowledge, application, and progress in Mass Media course content.

- Recommended Grade Level: Grades 9, 10, 11, or 12
- Recommended Prerequisite: Application and teacher recommendation.
- Credits: 1 or 2 credits Second credit may be subtitled Advanced to allow for a successive semester of instruction at an advanced level.
- Counts as an Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diploma .

**Mass Media Y is a course that follows the curriculum of Mass Media but also includes a focus on publishing a yearbook and a newspaper.*

5170

PLANT AND SOIL SCIENCE
(PLT SL SCI)

Plant and Soil Science provides students with opportunities to participate in a variety of activities which includes laboratory work. The following topics are found in this course: plant taxonomy, components and their functions; plant growth, reproduction and propagation; photosynthesis and respiration; environmental factors effecting plant growth, management of plant diseases and pests; biotechnology; the basic components and types of soil; calculation of fertilizer application rates and procedures for application; soil tillage and conservation; irrigation and drainage; land measurement, cropping systems, precision agriculture, principles and benefits of global positioning systems; and harvesting. Leadership development, supervised agricultural experience and career exploration opportunities in the field of plant and soil science are also included.

- Recommended Grade Level: 10, 11
- Recommended Prerequisites: Introduction to Agriculture, Food and Natural Resources
- Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum
- Counts as a Directed Elective or Elective for all diplomas
- Fulfills a Life Science or Physical Science requirement for the General Diploma only

2120

SPANISH I
(SPAN I)

Spanish I, a course based on *Indiana's Academic Standards for World Languages*, introduces students to effective strategies for beginning Spanish language learning, and to various aspects of Spanish-speaking culture. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to basic requests and questions, understand and use appropriate greetings and forms of address, participate in brief guided conversations on familiar topics, and write short passages with

guidance. This course also emphasizes the development of reading and listening comprehension skills, such as reading isolated words and phrases in a situational context and comprehending brief written or oral directions. Additionally, students will examine the practices, products and perspectives of Spanish-speaking culture; recognize basic routine practices of the target culture; and recognize and use situation-appropriate non-verbal communication. This course further emphasizes making connections across content areas and the application of understanding Spanish language and culture outside of the classroom.

- Recommended Grade Level: 9-12
- Recommended Prerequisites: Grade of B or better in English in the preceding year.
- Credits: A 2-credit course
- Fulfills a World Language requirement for the Core 40 with Academic Honors diploma or counts as a Directed Elective or Elective for any diploma

Fine Arts

ADVANCED CONCERT BAND (L) (Band)

4170

(ADV BAND)

Advanced Concert Band is based on the Indiana Academic Standards for High School Instrumental Music. This course provides students with a balanced comprehensive study of music through the concert band, which develops skills in the psychomotor, cognitive, and affective domains. Ensemble and solo activities are designed to develop elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of literature, and integration of other applicable disciplines.

Experiences include improvising, conducting, playing by ear, and sight-reading. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

- Recommended Grade Level: 9, 10, 11, or 12
- Recommended Prerequisites: Beginning and Intermediate Concert Band
- Laboratory course
- Credits: a 1-semester course for 1 credit. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized.
- Fulfills requirement for 1 of 2 Fine Arts credits for Core 40 with Academic Honors diploma
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

CHORAL CHAMBER ENSEMBLE (L) Mixed Chorus

4180

Choral Chamber Ensemble is based on the Indiana Academic Standards for High School Choral Music. Student musicianship and specific performance skills in this course are enhanced through specialized small group instruction. The activities expand the repertoire of a specific genre. Chamber ensemble classes provide instruction in creating, performing, listening to, and analyzing music in addition to focusing on specific subject matter. Students develop the ability to understand and convey the composer's intent in performance of music. Time outside of the school day may be scheduled for rehearsals and performances. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students are required to participate in performance opportunities outside of the school day that support and extend learning in the classroom.

- Recommended Grade Level: 9, 10, 11, or 12
- Laboratory course
- Credits: a 1-semester course for 1 credit. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized.
- Fulfills requirement for 1 of 2 Fine Arts credits for Core 40 with Academic Honors diploma
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

4188 Treble Choir

4184 Vocal Jazz (Show Choir)

Introduction to Two-Dimensional Art
(2D ART)

4000

Introduction to Two-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production, and integrated studies and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create two-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

- Recommended Grade Level: 9, 10, 11, or 12
- Laboratory course
- Credits: a 1-semester course for 1 credit, 1st semester
- Fulfills requirement for 1 of 2 Fine Arts credits for Core 40 with Academic Honors diploma
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

Introduction to Three -Dimensional Art
(3D ART)

4002

Introduction to Three-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production, and integrated studies and lead to the creation of portfolio quality works. Students explore historical and cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create three-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration; and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

- Recommended Grade Level: 9, 10, 11, or 12
- Recommended Prerequisites: Introduction to Two-Dimensional Art (L)
- Credits: a 1-semester course for 1 credit
- Fulfills requirement for 1 of 2 Fine Arts credits for Core 40 with Academic Honors diploma
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

JAZZ ENSEMBLE (L)
(JAZZ ENS)

4164

Jazz Ensemble is based on the Indiana Academic Standards for High School Instrumental Music. Students taking this course develop musicianship and specific performance skills through group and individual settings for the study and performance of varied styles of instrumental jazz. Instruction includes the study of the history, formative, and stylistic elements of jazz. Students develop their creative skills through improvisation, composition, arranging, performing, listening, and analyzing. A limited amount of time outside of the school day may be scheduled for rehearsals and performances. In addition, a limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students must participate in performance opportunities outside of the school day that support and extend the learning in the classroom. Student participants must also be receiving instruction in another band or orchestra class offering at the discretion of the director.

- *Recommended Grade Level: 10, 11, or 12*
- *Credits: a 1-semester course for 1 credit. The nature of this course allows for successive semesters of instruction at an advanced level provided that defined proficiencies and content standards are utilized.*
- *Fulfills requirement for 1 of 2 Fine Arts credits for the Core 40 with Academic Honors diploma if students are enrolled in another band or orchestra course*
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

Elective Courses (1 semester in length)

INTRODUCTION TO BUSINESS

(INTO BUS)

4518

Business, Marketing and Entrepreneurship 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. The course covers business management, entrepreneurship, marketing fundamentals, and business ethics and law. The course further develops business vocabulary and provides an overview of business and the role that business plays in economic, social, and political environments.

- Recommended Grade Level: Grade 9-10
- Recommended Prerequisites: None
- Credits: 1 credit per semester
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

NUTRITION AND WELLNESS

(NTRN WLNS)

5342

Nutrition and Wellness is an introductory course valuable for all students as a life foundation and academic enrichment; it is especially relevant for students interested in careers related to nutrition, food, and wellness. This is a nutrition class that introduces students to only the basics of food preparation so they can become self-sufficient in accessing healthy and nutritious foods. Major course topics include nutrition principles and applications; influences on nutrition and wellness; food preparation, safety, and sanitation; and science, technology, and careers in nutrition and wellness. A project-based approach that utilizes higher order thinking, communication, leadership, management processes, and fundamentals to college and career success is recommended in order to integrate these topics into the study of nutrition, food, and wellness. Food preparation experiences are a required component. Direct, concrete mathematics and language arts proficiencies will be applied. This course is the first in a sequence of courses that provide a foundation for continuing and post-secondary education in all career areas related to nutrition, food, and wellness.

- Recommended Grade Level: 9, 10, 11, 12
- Recommended Prerequisites: None
- Credits: 1 credit per semester, maximum of 1 semester, 1 credit maximum
- Qualifies as one of the F&CS courses a student can take to waive the Health & Wellness graduation requirement. To qualify for a waiver, a student must take three of the approved courses. For more information, please see 511 IAC 6-7.1-4(c)(6)
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diploma

ADVANCED NUTRITION AND WELLNESS

(ADV NTRN WEL)

5340

Advanced Nutrition and Wellness is a course which provides an extensive study of nutrition. This course is recommended for all students wanting to improve their nutrition and learn how nutrition affects the body across the lifespan. *Advanced Nutrition and Wellness* is an especially appropriate course for students interested in careers in the medical field, athletic training and dietetics. This course builds on the foundation established in *Nutrition and Wellness*, which is a required prerequisite. This is a project-based course; utilizing higher-order thinking, communication, leadership and management processes. Topics include extensive study of major nutrients, nutritional standards across the lifespan, influences on nutrition/food choices, technological and scientific influences, and career exploration in this field. Laboratory experiences will be utilized to develop food handling and preparation skills; attention will be given to nutrition, food safety and sanitation. This course is the second in a sequence of courses that provide a foundation for continuing and post-secondary education in all career areas related to nutrition, food, and wellness.

- Recommended Grade Level: 10, 11, 12
- Recommended Prerequisites: Nutrition and Wellness
- Credits: 1 Credit per Semester, maximum of 2 semesters, 2 Credits maximum

- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas

PERSONAL FINANCIAL RESPONSIBILITY

4540

(PRS FIN RSP)

Personal Financial Responsibility addresses the identification and management of personal financial resources to meet the financial needs and wants of individuals and families, considering a broad range of economic, social, cultural, technological, environmental, and maintenance factors. This course helps students build skills in financial responsibility and decision making; analyze personal standards, needs, wants, and goals; identify sources of income, saving and investing; understand banking, budgeting, record-keeping and managing risk, insurance and credit card debt. A project based approach and applications through authentic settings such as work based observations and service learning experiences are appropriate. Direct, concrete applications of mathematics proficiencies in projects are encouraged.

- Recommended Grade Level: 10, 11, 12
- Recommended Prerequisites: None
- Credits: 1 semester course, 1 credit per semester, 1 credit maximum
- Counts as a Directed Elective or Elective for all diplomas
- Qualifies as a quantitative reasoning course

Teacher Recommended Courses

2516

Algebra 1 Lab

(ALG ENRICH)

Algebra 1 Lab 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. The five critical areas of *Algebra Enrichment* align with the critical areas of *Algebra I*: Relationships between Quantities and Reasoning with Equations; Linear and Exponential Relationships; Descriptive Statistics; Expressions and Equations; and Quadratic Functions and Modeling. However, whereas *Algebra I* contains exclusively grade-level content, *Algebra Enrichment* combines standards from high school courses with foundational standards from the middle grades.

- Credits: A two credit course
- Counts as a Mathematics Course for the General Diploma only or as an Elective for the Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- Algebra Enrichment is designed as a support course for Algebra I. As such, a student taking Algebra Enrichment must also be enrolled in Algebra I during the same academic year.
- *Requires teacher recommendation.*



RCCHS Dual Courses 2018-19

Ivy Tech Community College Dual credit courses taught by RCCHS teachers at RCCHS

Advanced Life Science Animal: AGRI 107 - 3 college credits

Agribusiness: AGRI 102-3 college credits

Animal Science: AGR I 103 – 3 college credits

Auto Services Tech I: AUTI 100 - 3 college credits

Auto Services Tech 2: AUTI 121 – 3 college credits, AUTC 111- 3 college credits, AUTI 131-3 college credits, AUTI 141 – 3 college credits

Civil Engineering & Architecture: DESN 105 – 3 college credits

Construction Technology I & II (Dual credit through IVY Tech Gary)

Criminal Justice (Vincennes University offered at KV High School)

Digital Applications: CINS 101 – 3 college credits

Education Professions I: EDUC 101 – 3 college credits

Health Science Education I: HLHS 100 - 3 college credits

Introduction to Engineering: DESN 102 3 college credits

Medical Terminology: HLHS 101 – 3 college credits

Natural Resources: AGRI 115- 3 college credits

Pre-Calculus/Trigonometry: Math 136 – 3 college credits and Math 137 – 3 college credits

Principles of Engineering – DESN 104- 3 college credits

Spanish 3: SPAN 101 – 3 college credits and SPAN 102 – 3 college credits

Welding I: INDT 114, WELD 108

Advanced Placement Courses

AP Biology (3 college credits if the student scores a 3 or above)

AP Calculus AB (3 college credits if the student scores a 3 or above)

AP Chemistry (3 college credits if the student scores a 3 or above)

AP English Language & Composition (3 college credits if the student scores a 3 or above)

AP English Literature & Composition (3 college credits if the student scores a 3 or above)

AP Microeconomics (3 college credits if the student scores a 3 or above)

AP Physics : 1:Algebra-Based (3 college credits if the student scores a 3 or above)

AP Spanish Language & Culture (3 college credits if the student scores a 3 or above)

AP Statistics (3 college credits if the student scores a 3 or above)

AP US Government & Politics (3 college credits if the student scores a 3 or above)





Rensselaer Central High School Activities



Club/Activities	Sponsor(s)	Description	Time of Year	Flex Meeting
Academic Teams	Mr. Hawthorne Ms. Anliker	Decathlon, Quiz Bowl, Spell Bowl	All Year	
Art Club	Mrs. Spurgeon	An after school club for students interested in art.	All Year	
Bomber Athletic Club	Mr. Hickman	A group of athletes chosen by the Athletic Director to support Special Olympics at RCHS.		
Chaos(Newspaper/Yearbook)	Mrs. Schneider	Mass Media Y class creates yearbook and newspaper.	All Year	
Cheerleading	Mrs.D.Jordan	Cheerleaders perform at pep sessions, basketball games, football games, etc.	All Year	
Color Guard/Winter Guard	Mrs. Molenaar (Mr. Jamieson)	Color Guard competes/performs with the band.	All Year	
Community Service Club	Mr. Hawthorne Mrs. Henady	A group that helps with various events in the community, such as blood drives and the recycling	All Year	4th Week Tuesday
Dance Team	Mrs. Cook	The team performs at Basketball games.	Fall/Winter	
Drama Club/Theatre Department	Mr. Sell	RCHS Play productions.	Fall/Spring	
Fellowship Christian Students (FCS)	Mrs. Radtke (Mr. Feagans)	The club recognizes the importance of Christian values and plans community activities.	All Year	
Future Farmers of America (FFA)	Mr. Wamsley	The goal of the club is to develop Agricultural leadership, cooperation, and citizenship.	All Year	3rd Week Thursday
History Club	Mr. Hawthorne	The club competes in the History Bowl, takes History-related field trips, etc.	All Year (Meets Fri. AM)	
Jazz Band	Mr. Jamieson	Class at RCHS	All Year	
Marching Band	Mr. Jamieson	Class at RCHS	All Year	
National Honor Society	Mrs. Cook Mrs. Henady	(Grades 11-12)Committee selects students with a GPA of 3.7 or higher who participate in extra-curricular activities, leadership, and community service.	All Year	3rd Week Tuesday
Pioneerz	Mrs. Dobson Mr. Stevens	A group of RCHS students selected by faculty members to mentor 5th graders.	All Year	2nd Week Tuesday
Prom	Mrs. Cook Mrs. Schneider	Sponsored by the Junior Class.	Spring	
Science Olympiad	Mr. Gruesbeck Ms. Anliker	Students will be involved in scientific events and a competition.	All Year	
Choir	Mrs. Davisson	Show Choir and Treble Choir require auditions.	All Year	
Sigma Di Gamma	Mrs. Benner Mrs. Kalbaugh	Students currently in Spanish may join this club to participate in arts and cultural activities.	All Year	2nd Week Thursday
Spain Trip	Mrs. Benner	10-12 students in Spanish. Trip years= 2019	Spring Break	
Spanish Quiz Bowl	Mrs. Benner	Students currently in Spanish may join the team	Jan-April	
Sports	Mr. Hickman	Fall =Football,Boys Tennis, Volleyball, Girls Golf & Cross Country, Cheerleading Winter = Basketball, Swimming, Wrestling, Cheerleading Spring =Baseball, Softball, Track, Boys Golf, Girls Tennis	All Year	
Student Council	Mrs. Cook Mrs. Hege	The club sponsors Homecoming events, MORP Dance, Powderpuff Football, and other student run activities.	All Year	1st Week Tuesday
Sunshine Society	Mrs. Cook Mrs. Schneider	This club is a service organization that inspires high school girls to higher ideals. Plans the Sunshine Dance, as well as service projects, including contributing to Riley Children's Hospital, etc.	All Year	1st Week Thursday
21st Century Scholars	Mrs. Hagen Mr. Koehl	Counselors provide 21st Scholars with opportunities to complete the required activities for the student to remain eligible for the 21st Scholarship.	All Year	