



## Academy Planning Guide

SIMONSEN 9TH GRADE CENTER SUPPLEMENT CLASSES

# CORE CLASSES

## Language Arts/Social Studies

This will be an integrated course called **Perspective of Citizenship (POC)**; **Credit earned is as follows:**

### **1111S1/1111S2 English I**

**1.0**

**Year**

English I includes reading literature, reading non-fiction, engaging in the writing process, engaging in speaking and listening opportunities, and developing language skills. Throughout the course, students will also develop research skills and produce various written assignments, including narrative, expository, and persuasive writing. Grammar fundamentals are monitored in writing assignments. The state required End-Of-Course (EOC) exam is administered upon successful completion of this course. **Integrated Course: Credit will be earned in English I/Honors English, Citizenship and Technology Applications if successfully completed.**

Or

### **\*1121S1/1121S2 Honors English I**

**1.0**

**Year**

Honors English I covers more selections – books and nonfiction – in greater depth than English I classes. Students will also engage in the writing process more frequently to produce narrative, expository, and persuasive writing. To enroll, honors teachers recommend a B+ average in both seventh and eighth grade English and concrete evidence of analytical thinking skills from a writing portfolio. The state required End-Of-Course (EOC) exam is administered upon successful completion of this course. **Integrated Course: Credit will be earned in English I/Honors English, Citizenship and Technology Applications if successfully completed.**

And:

### **2112S1/2112S2 Citizenship**

**1.0**

**Year**

Citizenship students will gain a broad overview of the meaning of citizenship in the state, country, and world. Units of study include: Individuals, Groups, and Institutions; Civic Rights and Ideals; Cultural Connections; Missouri History; and Missouri Government. For each unit of study, students will engage in a project that allows them to develop research, reading, writing, and speaking skills while learning the course content. Citizenship will satisfy state and district graduation requirements that students receive instruction in the constitution of the State of Missouri. Students must also pass tests assessing their knowledge of the Missouri Constitution. **Integrated Course: Credit will be earned in English I/Honors English I, Citizenship and Technology Applications if successfully completed.**

And:

### **7216S1/S2 Technology Applications**

**0.5**

**Year**

This course is designed to bring students to the basic level of proficiency in applying technology in an educational setting. Students will demonstrate creative thinking, construct knowledge, and develop projects using appropriate technology applications. Students will be introduced to word processing, spreadsheet applications, presentation media, and internet applications. Students will use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources. **Integrated Course: Credit will be earned in English I/Honors English, Citizenship and Technology Applications if successfully completed.**

## Science

### **412A/B Physical Science**

**1.0**

**Semester**

Physical Science is an introductory science course. Upon completion, students will have a general understanding of Motion and Stability, Energy, Structure and Properties of Matter, Chemical Reactions, and Earth and the Universe.

## Math

### **3117A/B Pre-Algebra**

**1.0**

**Semester**

Pre-Algebra is a course designed to provide opportunities for students to expand on their eighth grade algebra skills and bridge the transition into Algebra 1. The content emphasizes number sense, solving equations, and functions, along with graphing and writing linear equations. This course is foundation to preparing for tomorrow's world by exploring and discovering math concepts, connecting algebra to the real world and future courses and careers.

### **3121A/3152B Algebra IA and Algebra IB**

**1.0**

**Year**

Algebra IA/IB is the Algebra I curriculum offered at a slower pace. It is a course designed to prepare students for tomorrow's world by involving them in exploring and discovering math concepts, connecting algebra to the real world and to other subjects and math topics, and by building an understanding of the concepts that provide a strong foundation for future courses and careers. The content emphasizes graphing, solving equations and inequalities, working with radicals, data analysis, probability, and functions through the integrations of technology as a problem-solving tool. Algebra IA/IB is the foundation for higher mathematics courses. The state required End of Course (EOC) exam is administered upon successful completion of this course.

### **3131A/B Algebra I**

**1.0**

**Semester**

Algebra I is a course designed to prepare students for tomorrow's world by involving them in exploring and discovering math concepts, connecting algebra to the real world and to other subjects and math topics, and by building an understanding of the concepts that provide a strong foundation for future courses and careers. The content emphasizes graphing, solving equations and inequalities, working with radicals, data analysis, probability, and functions through the integration of technology as a problem-solving tool. Algebra I is the foundation for higher mathematics courses. The state required End of Course (EOC) exam is administered upon successful completion of this course.

### **3141A/B Geometry**

**1.0**

**Semester**

Geometry emphasizes reasoning and logical thinking. This course connects geometry to algebra, data analysis, probability, and trigonometry. Specific topics include transformations, polygons, Cartesian coordinate system, area of plane figures, similarity, right triangle trigonometry, surface area and volume of solids and circles. This is a course for students who expect to continue their study of mathematics in high school, technical school, or college. The state End of Course (EOC) exam is administered upon successful completion of this course. **Prerequisite: Successful completion of Algebra IA and IB or Algebra I, or Algebra Topics. NCAA approved course.**

### **3162A/B Algebra II**

**1.0**

**Semester**

Algebra II is a course that builds upon skills developed in previous math courses. It is largely a study of functions including polynomial, radical, rational, exponential, logarithmic, cubic, piecewise, step, and absolute value. Other topics include complex numbers, operations with functions, and sequences & series. Intermittent reviews of selected Algebra 1 topics will occur throughout the course. This is a course for students who plan to continue their study of mathematics in high school, technical school, and/or college. **Prerequisite: "C" or higher in Geometry or teacher approval. Requires: TI-83 (or newer) graphing calculator. NCAA approved course.**

## **REQUIRED ELECTIVES**

### **8210 Health**

**0.5**

**Term**

Health students will gain knowledge to make healthy decisions regarding their personal health and wellness that confronts society today. Instruction includes life management skills, disease prevention and control, mental health, sex education, Tobacco, Alcohol and Other Drugs (TAOD), nutrition, physical fitness, and health related careers. This would fulfill the 0.5 credit of health required to graduate.

### **8115 Physical Education**

**0.5**

**Term**

9th Grade Physical Education consists of: fitnessgram testing, volleyball, ultimate frisbee, floor hockey, badminton, pickleball, shuffleboard and boater safety.

### **8130 Body Conditioning**

**0.5**

**Term**

Body Conditioning I consists of using weight lifting equipment, improving flexibility, performing agility exercises and aerobic conditioning. Students will learn the fundamentals of weight lifting, flexibility, and improving body strength. Students will be taught and practice safe lifting techniques. Each student will develop fitness goals and individual workouts. They will learn about safety in spotting and breathing mechanics.

## **PROGRAM OF STUDY COURSES**

### **Agriculture, Foods and Natural Resources Program of Study**

#### **9932A/B Introduction to Agriculture**

**1.0**

**Semester**

This class serves to introduce students to the Agriculture, Foods and Natural Resource Academy. It includes units related to the four pathways within the academy: animal science, plant and soil science, agricultural system management and conservation and natural resources. It will also include leadership, science applications and career opportunities. In addition, students will explore opportunities with local groups including local conservation groups and FFA.

Students' participation in this course will experience exciting "hands-on" activities, projects and problems. Students' experience will involve the study of communication, the science of agriculture, plants, animals, natural resources and agricultural mechanics. While surveying the opportunities available in Ag and natural resources, students will learn to solve problems, conduct research, analyze data, work in teams and take responsibility for their work, actions and learning.

### **Business Management and Technology Program of Study**

#### **7221 Computer Applications**

**0.5**

**Term**

Computer Applications will build upon the student's prior knowledge of word processing, spreadsheets and presentations with reinforcement, integration and intermediate to advanced applications of the software specific to a business work environment. Students will also learn to create, sort and manipulate databases to create reports and analyze data. The Microsoft Office suite of software will be utilized for instruction.

#### **7249 Introduction to Business**

**0.5**

**Term**

Introduction to Business is a course designed to introduce students to the concepts of business and leadership to help prepare them for their roles as employees, employers, citizens and leaders within their community while thinking like an entrepreneur. Students will look into business structures and how business impacts the economy in both profit and non-profit organizations. Students will also be given the opportunity to unlock their leadership potential through the development of essential skills necessary for effective leadership. Both business and leadership perspectives will blend seamlessly through collaboration with local businesses, real world experiences and a focus on project-based activities and discussions.

#### **7237A/B Computer Science Essentials**

**1.0**

**Semester**

Computer Science Essentials is a course to allow students to experience the major topics, big ideas, and computational thinking practices used by computing professionals to solve problems and create value for others. This course will empower students to develop computational thinking skills while building confidence that prepares them to advance to Computer Science Principles and Computer Science A.

## **Fine Arts and Communication Program of Study**

### **7234 Introduction to Media**

**0.5**

**Term**

Introduction to Media students are introduced to the different types of media, including print, broadcast, graphic communications, publications, social media and photography. This survey course provides students with broad and varied instruction, ranging from the history of mass media to its contemporary forms and influences. Students gain a knowledge base from which to make decisions on future course selections and academy pathways.

### **6110A/B Art I**

**1.0**

**Semester**

Art I is an introduction to the basic fundamentals and skills used in art. Emphasis is on learning to draw and paint with a variety of tools and media.

### **5330 Interpersonal Communication**

**0.5**

**Term**

Interpersonal Communication will focus on the development of the interpersonal communication skills for building and maintaining positive relationships in both a personal and professional environment. Topics of study include an orientation to interpersonal communication, verbal and nonverbal communication, perception of self and others, listening, managing conflict, response skills, self-disclosure, ethics in interpersonal communication, cultural and gender considerations, and characteristics of leadership in effective work groups. Students will learn how to listen more effectively, respond more appropriately to what others have said and how to maintain and develop good interpersonal relationships with their families, peers, and colleagues in the workplace.

### **6310 Drama I**

**0.5**

**Term**

Drama I is an introductory performance course. Students will develop basic theatrical skills and will study the historical background of theater. Performances will include: pantomime, improvisation, monologues, and duet/triple/quad acting scenes. Since memorization is the foundation of drama; all performances will be memorized.

### **6511A/B/C Concert Band**

**1.5**

**Year**

Concert Band is a performance-based class for 9th - 12th grade students. Students will have the opportunity to audition for the Symphonic Band upon completion of this class. All members of Symphonic and Concert Bands are required to march unless they are a fall athlete or have a medical excuse. **It is possible to do both Marching Band and Athletics at the same time.**

### **6531 Marching Band**

**1.0**

**Term**

Marching Jay Band is a competitive group. All band students are expected to participate unless they are a fall athlete or have a physical disability, which would prohibit their participation. Out of school practices and performances are required. Certain performances are required. In performance classes, grades will be directly affected by participation in required concerts and other activities.

### **6420A/B/C/D Choir**

**2.0**

**Year**

Freshman Choir is a performance based choral ensemble composed of 9th grade boys and girls. It is an introductory vocal music class that meets daily for two semesters and performs several times during the school year. Membership in this choir is based upon recommendation of the student's previous middle school music teacher. Students entering Simonsen from another school district may be admitted to the class by recommendation from a previous music teacher and/or individual audition. Certain performances are required. In performance classes, grades will be directly affected by participation in required concerts and other activities.

### **6521A/B/C/D Concert Orchestra**

**2.0**

**Year**

Concert orchestra will continue to develop and enhance the student's technical skills and musical concepts through intermediate to advanced music literature selected from a variety of periods. Membership is by audition only. Certain performances are required. In performance classes, grades will be directly affected by participation in required concerts and other activities. **Prerequisite: Auditions in the spring of the previous year.**

## **Health Services Program of Study**

### **9401A/B Principles of Biomedical Sciences (PBS) 1.0 Semester**

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

### **9402 Introduction to Health Services 0.5 Term**

Introduction to Health Services is a freshman level course designed to orient students to the opportunities available in the Health Services field. In exploring these opportunities students will be exposed to professionalism and characteristics of the workplace; such topics will be tailored to the Health Service Academy, but will also benefit students who choose to pursue careers in other fields. Students will explore the four Health Services Academy pathways, which include Therapeutic Services and Rehabilitation, Health Professional Services, Health Support Services, and Biotechnology, Informatics and Health Administration. Topics to be studied will be career and educational requirements for a range of professions in each of the four pathways. A personal portfolio will be the outcome of this Project-Based Course.

## **Human Services Program of Study**

### **2600 Introduction to Human Services 0.5 Term**

This is the introductory course to the Human Services Academy. The course will cover basic information for the five pathways of the academy. Customer service is an important component of all occupations in the Human Services Academy. Time will be spent working on 21st century skills of collaboration, communication, research skills, accountability, professionalism, and networking. Guest speakers will present relevant information exposing students to a variety of occupational pathways within this academy. Students will have a culminating project at the end of the semester researching careers of interest to the student.

### **7320 Foods and Nutrition I (Culinary Students) 0.5 Term**

Foods and Nutrition I is an introductory course in foods that includes the study of nutrition, basic terminology and equipment, the principles of cookery, and the skills involved in cooking through laboratory experience. Emphasis is given to the study of fruits, vegetables, grains, quick breads, protein foods and meal planning for a healthy diet.

## **Industrial Engineering and Technology Program of Study**

### **7240A/B Introduction to Engineering Design (IED) 1.0 Semester**

This PLTW introductory course to engineering is designed for 9th or 10th grade students. The major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community.

### **9932A/B Introduction to Agriculture 1.0 Semester**

This class serves to introduce students to the Agriculture, Foods and Natural Resource Academy. It includes units related to the four pathways within the academy: animal science, plant and soil science, agricultural system management and conservation and natural resources. It will also include leadership, science applications and career opportunities. In addition, students will explore opportunities with local groups including local conservation groups and FFA.

Students' participation in this course will experience exciting "hands-on" activities, projects and problems. Students experience will involve the study of communication, the science of agriculture, plants, animals, natural resources and agricultural mechanics. While surveying the opportunities available in Ag and natural resources, students will learn to solve problems, conduct research, analyze data, work in teams and take responsibility for their work, actions and learning.

## **UNIVERSAL ELECTIVES**

### **5550 Speech I**

**0.5**

**Term**

Speech I is concerned with the fundamentals of communication. It is a public-speaking course designed around the idea that we learn to speak by speaking. It contains a balance of both theory and practice. Speeches are given to peers that have been researched and rehearsed.

### **5552 Debate**

**0.5**

**Term**

Debate I is a course designed to teach the fundamentals of debating. Emphasis is placed on the techniques of proper debate procedures. This course is designed to prepare students for tournament competition.

### **1303A/B Journalistic Writing**

**1.0**

**Semester**

Journalistic Writing is designed for students who are interested in journalism and who intend to participate in Journalistic Production. The course provides activities in news, feature, sports, in-depth, and opinion writing; ethics and media law; interviewing; researching and page design. There will also be opportunities for learning photography and advertising. This course carries an English credit and serves as a prerequisite for acceptance in Journalistic Production, which publishes the school newspaper and yearbook. Journalistic Writing is an elective credit and is a prerequisite for Journalistic Production. NCAA approved course.

### **7248 Foundations of Leadership**

**0.5**

**Term**

Foundations of Leadership is a course where students will work as individuals and in teams to research, explore, and grow as leaders in their community. The course will begin with leaders and leadership styles. Students will grow their leadership styles through team building, personality and leadership identification drills, and group experiences. The focus will be on communication, social and personal characteristics, work dynamics, global awareness, and development of personal concepts. By learning how to think, not what to think, students can control and design their future. This course is designed to provide students with the opportunity to unlock their leadership potential and to develop the essential skills needed for effective leadership.

### **5112A/B French I**

**1.0**

**Semester**

French I introduces students to the French language and the cultures of the people who speak it. The primary focus of this class is acquiring the tools for total communication - listening, speaking, reading, and writing. Correct pronunciation is stressed with a study of the spelling patterns governing this. Students are encouraged to use the skills learned through classroom and individual activities.

### **5212A/B German I**

**1.0**

**Semester**

German I emphasizes reading, writing, and listening to the German language. The course features an acquisition of a basic vocabulary, mastery of basic grammatical patterns, and an introduction to a German culture. This course is not open to students who have completed a course in German.

### **5410A/B Spanish I**

**1.0**

**Semester**

Spanish I exposes students to Spanish from the first day they enter the class. The skills of listening, speaking, reading, and writing Spanish are emphasized along with correct, precise pronunciation on the basic level. Cultural items related to literature, history, and art of the Spanish-speaking world form a part of the course to reinforce communicative tasks and to promote cultural awareness. **Native speakers can advance without mandatory prerequisite with department approval.**

### **5312A/B Latin I**

**1.0**

**Semester**

Latin I offers the serious student the ability to read, translate, and write fundamental Latin. The learning of classical grammar and vocabulary greatly increases the student's English vocabulary and reading skill and enhances the subsequent learning of other languages. Graeco-Roman contributions to art, literature, history, and religion are explored.

(College-bound students are encouraged to complete two units of the same world language.)

### **5116A/B Chinese I**

**1.0**

**Semester**

Chinese I provides a solid foundation in the sound system and pinyin transcription system of modern spoken Chinese. Students will develop an understanding of basic sentence structure in Chinese and will learn a variety of functional language to enable them to negotiate basic, everyday tasks in terms of speaking, listening, reading, and writing. In addition, students will learn to write and recognize 150 Chinese characters and will acquire intercultural and interpersonal communication skills and strategies for communicating with Chinese people. NCAA approved course.

## Following courses will be recommended

### by teacher only:

*5581S1/S2	Study Skills	1.0	*62S1/S2	Basic Design	1.0
*18S1/S2	Resource	1.0	*90S1/S2	Job Readiness	1.0
*61S1/S2	Independent Living	1.0	*95S1/S2	Functional Academics	1.0
			*100A/B/C/D	ESOL	1.0

## Practical Art

### **7404 Drivers Education**

**0.5**

**Term**

Driver Education is designed to give the student experience and instruction in classroom, simulation, range, and behind-the-wheel driving. **State law requires that the student be 15 (or older) at the time the class begins.** (9<sup>th</sup> grade enrollment is limited to 1<sup>st</sup> block, terms 2, 3 and 4.) There is a \$1 fee for student instructional permit.

### **7231A/B Intro to Computational Thinking**

**1.0**

**Semester**

The objective of Introduction to Computational Thinking is to develop in the students the computational practices of algorithm development, problem solving, critical thinking, and programming within the context of problems which are relevant in the lives of today's students. Students will also focus on the ability to effectively communicate their solutions to some of these problems. Students will also be introduced to topics such as interface design, limits of computers, and societal and ethical issues.

### **7320 Foods and Nutrition I**

**0.5**

**Term**

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## Fine Art

### **7229 Intro to Digital Photography**

**0.5**

**Term**

Introduction to Digital Photography students will study the creative art processes of photography with information about the history, aesthetics, and criticism of the photographic media. Students will explore photographic approaches, photographers, and techniques of digital photography including creative experimentation with photo editing and digital enhancement of photographs. Students will also develop an appreciation of contemporary uses of photography. Students will produce a portfolio of their work to include daily assignments, formal reports, special projects, and their top photos taken during the course based on the composition principles learned.

### **6110A/B Art I**

**1.0**

**Semester**

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**Year**

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**6420A/B/C/D Choir****2.0****Year**

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**6211 History of Jazz, Pop and Rock****0.5****Term**

This course introduces students to the history, theory, and genres of music. The course explores the history of music, from the surviving examples of musical forms through to contemporary pieces from around the early 1920 to current music. We will visit a variety of genres including: jazz, blues, gospel, soul, Motown, folk, bluegrass, country, the evolution of rock and roll and many more.

**6410 Music Appreciation****0.5****Term**

Music Appreciation is a non-auditioned and non-performance class for students. The purpose of the class is to provide an overview of music without the responsibility of singing/performing. Music Appreciation allows students to explore cultural and historical elements of music. Students will be introduced to a variety of musical skills for performance and critical listening. This course gives non-performance oriented students the opportunity to receive a fine arts credit through the Vocal Music program.