# JORDAN-ELBRIDGE HIGH SCHOOL

## 9TH GRADE PROGRAM OF STUDIES

This document is intended to assist incoming 9th grade students and their parents make informed course selection decisions. A complete program of studies is available at www.jecsd.org. Each students path through high school is unique and decisions shoud be made in consultation with our school counselors. If you have any questions, please do hesitate to contact us at (315) 689-8510 x1012

## ENGLISH

o All students must take four units of English to graduate.

**ENGLISH 9**

*40 weeks • 1 credit*

In this course students study various forms of literature including novels, short stories, drama and poetry. Students learn to uncover the literary elements and techniques that authors use to develop themes. This course stresses basic composition skills and the application of these skills in written and oral forms. An extensive unit on developing research skills is part of the coursework.

- ENGLISH 10
- ENGLISH 10E
- ENGLISH 11
- AP LANGUAGE & COMPOSITION
- AP LITERATURE & COMPOSITION
- ENGLISH 12
- OCC FRESHMAN COMPOSITION: ENG 103/104

## MATHEMATICS

o Students are required to take three credits in math. Passing one Regents math exam is required for graduation.

**ALGEBRA I**

*40 weeks • 2 credits*

Students in this class will solve and graph linear equations and inequalities, polynomials, and quadratic, exponential and rational functions. Students also study basic trigonometry, probability and statistics. Students are assigned to a math lab *every-other-day* as part of this course. This course is based on the NYS Common Core Standards and concludes with a Regents exam. A TI-84 graphing calculator is recommended.

**ALGEBRA EX**

*40 weeks • 2 credits*

Students in this class solve and graph linear equations and inequalities, polynomials, and quadratic, exponential and rational functions. Students also study basic trigonometry, probability and statistics. Students are assigned to a math lab *every day* as part of this course. This course is based on the NYS Common Core Standards and concludes with a Regents exam. A TI-84 graphing calculator is recommended.

- GEOMETRY
- ALGEBRA II
- ALGEBRAIC APPLICATIONS
- CONSUMER MATH
- OCC STATISTICIS: MAT 118
- OCC PRE-CALCULUS: MAT 143
- OCC CALCULUS I: MAT 161

# SCIENCE

o Students must earn a minimum of three science credits to graduate.

**BIOLOGY**

*40 weeks • 1 credit*

In this course students will learn about genes, how organisms change over time, and how humans affect the physical and living environment. As part of this class, students will be required to explain, analyze and interpret biological processes and phenomena. An important component of this course will be the development of laboratory skills. This course concludes in a Regent's exam.

**EARTH SCIENCE**

*40 weeks • 1 credit*

Students learn about stars, weather, rocks, minerals and earthquakes in this course. Earth Science is the next step for students majoring in science and is the recommended course to take before chemistry. This course concludes in a Regent's exam.

- CHEMISTRY
- PHYSICS
- ENVIRONMENTAL SCIENCE
- INTRODUCTION TO PHYSICAL SCIENCE
- INTRODUCTION TO BIOLOGY
- AP BIOLOGY
- AP CHEMISTRY

# SOCIAL STUDIES

o Students must earn a minimum of three science credits to graduate.

**GLOBAL HISTORY & GEOGRAPHY I**

*40 weeks • 1 credit*

In this course, students study world history from ancient times through the mid-1600s. They examine how themes such as geography, warfare, conflict, revolution, and cultural diffusion have shaped the world we live in today.

**AP WORLD HISTORY I:**

*40 weeks • 3 college credits*

World History I is the first in a two-course sequence tracing the rise of world civilizations. In this course students examine the social, political, intellectual, and economic development of civilizations in Eurasia, Africa, and the Americas from the beginning until the 16th century. Main themes include the Neolithic revolution, urbanization, early empires, conflicts, and interconnections through trade, culture, and religions. More broadly, the course exposes students to the use of primary and secondary sources and to the identification of change over time, causality, and contingency in historical knowledge.

- GLOBAL HISTORY & GEOGRAPHY II
- AP WORLD HISTORY II
- US HISTORY & GOVERNMENT
- ECONOMICS
- CIVICS
- HISTORY OF POP CULTURE
- LAW: RIGHTS & RESPONSIBILITIES
- PSYCHOLOGY (SENIORS ONLY)
- SOCIOLOGY
- HISTORY OF SPORTS
- AMERICAN CINEMA
- SPOT WESTERN CIV I: HIS 103/104
- OCC AP AMERICAN HIS: HIS 105-106

# LANGUAGES OTHER THAN ENGLISH (LOTE)

**SPANISH II**

*40 weeks • 1 credit*

*Prerequisite: Spanish I*

This full-year course continues the work begun in Spanish I. The major emphasis is on the development of communication skills useful in daily life. There is additional practice in reading and writing Spanish, with a focus on what it is like to travel through various Hispanic countries. This course satisfies the language requirement for graduation.

**SPANISH III**

*40 weeks • 1 credit*

*Prerequisite: 75 percent average in Spanish II*

Spanish III brings a student's communication skills to the level of proficiency. Small group work gives students practice speaking Spanish on topics of interest to them. Emphasis is on vocabulary and the refinement of previously learned structures, while projects and materials are used to help students experience some Spanish culture. Upon passing the class and comprehensive exam, this course satisfies the language sequence for LOTE.

- OCC SPANISH I: SPA 201
- OCC SPANISH II: SPA 202

# ART

- All students must take one unit of art or music to graduate.
- Art courses are offered to instill appreciation of the visual arts and to present the opportunity for creative self-expression.

**STUDIO ART**

*40 weeks • 1 credit*

*Prerequisite: none*

This foundational course offers a wide variety of experiences based upon the understanding, knowledge, appreciation, and application of the fundamental elements of art and the principles of design. Emphasis is placed on creativity and problem solving. Lessons include instruction specific to the skills of drawing, painting, print making, mixed media, and sculpture. Studio Art is designed not only for those who plan to take further courses in art, but also for those desiring a general background in the visual arts.

- ADVANCED STUDIO ART
- DIGITAL PHOTOGRAPHY
- GRAPHIC DESIGN
- VIDEO PRODUCTION
- ADVANCED DIGITAL PHOTOGRAPHY
- ADVANCED GRAPHIC DESIGN
- ADVANCED VIDEO PRODUCTION
- AP Studio Art

# MUSIC

**BAND**

*20 weeks • ½ credit*

*Prerequisite: permission by instructor*

In this course, students engage in an extensive study of interpretation, form, expression, and sight reading. Students also learn about different periods of music. Two years of this half-credit course fulfills the music/art requirement for graduation.

**CHORUS**

*20 weeks • ½ credit*

*Prerequisite: permission by instructor*

A variety of works from all periods of choral literature are studied and performed in this half-credit, 20-week course. Two years of this course fulfills the music/art requirement for graduation.

**MUSIC THEORY I**

*40 weeks • 1 credit*

In this course, students learn the basics of the language of music, including the elements of structure and notation. Students also develop the ability to analyze music aurally and visually as they concentrate on various techniques used in music writing.

**MUSIC IN OUR LIVES**

*40 weeks • 1 credit*

This course is an elective for any student who enjoys listening to music. Band or chorus experience is not necessary. Students will explore a variety of musical styles, with an emphasis on the trends in music of this century. This course fulfills the music/art requirement for graduation.

- PERFORMING ARTS
- SPOT MUSIC THEORY: MUS 101T (SUNY Potsdam)

# PHYSICAL EDUCATION

o Students need four years of physical education to graduate.

**PHYSICAL EDUCATION**

*20 weeks • ½ credit*

Wellness and overall good health are learned skills. In this course, students are encouraged to lead healthy, active lifestyles, as they learn why exercise is so important in their daily lives. Physical education classes are designed to make learning fun. They are geared toward positive self-esteem and cooperative learning experiences. During the year, various activities are offered and students are exposed to a number of recreational pursuits including soccer, handball, weight training, volleyball, tennis, badminton, archery and physical fitness.

- SPOT WEIGHT TRAINING

**HEALTH EDUCATION**

20 weeks • 1 college credit

This course consists of the study of nutrition, human growth and development, HIV/AIDS instruction, disease prevention, health problems related to tobacco, alcohol and other drugs, family life, emotional health and stress management. A life skills curriculum is included. This course is required for graduation.

# TECHNOLOGY

**RESIDENTIAL STRUCTURES**

*20 weeks • ½ credit*

*Prerequisite: Design Drawing for Production*

This course introduces students to a variety of construction methods such as estimating building materials and common building practices for residences. In this course, students learn the steps involved in building a house, including: types of foundations, different styles of homes constructed; and building styles, such as platform, post and beam construction. In addition, common roofing styles and blueprint reading are incorporated in this course.

**MATERIALS PROCESSING**

*20 weeks • ½ credit*

*Prerequisite: Design Drawing for Production*

This course is designed to offer a broad view of the way humans change materials. Students will use a variety of materials such as wood, plastics and metals to complete laboratory projects. In addition, students will be involved with care, maintenance and tool applications on a daily basis.

**PLTW: DESIGN AND DRAWING FOR PRODUCTION**

*40 weeks • 1 credit*

In this course students use 3-D, solid modeling design software to create solutions to problems. As part of this class, students learn how to document their work and communicate their solutions. This course is intended for 9th or 10th grade students.

- PLTW: COMPUTER SCIENCE
- PLTW: COMPUTER INTEGRATED MATERIALS
- PLTW: PRINCIPLES OF ENGINEERING
- PLTW: ENGINEERING, DESIGN, AND DEVELOPMENT

# FAMILY AND CONSUMER SCIENCES

**EARLY CHILDHOOD EDUCATION**

*40 weeks • 1 credit*

This course is an introduction to the field of Early Childhood Education including history, philosophy, and the application of child development techniques. Includes techniques for observing and recording behaviors, communication skills, guidance techniques, developmentally appropriate practices and the role of the teacher in early childhood settings.

**CHILD DEVELOPMENT AND PSYCH**

*20 weeks • ½ credit*

This course focuses on the development of a child's language, personality and thinking. Students also focus on the external factors affecting a child's development, including their environment at home and at school, as well as special challenges children may face.

**GLOBAL AND GOURMET FOODS**

*20 weeks • ½ credit*

Eat your way around the world! This course introduces students to the ways in which the culture and traditions of regions and countries influence food choices. Students will identify and prepare foods from various regions and countries to compare cuisines, ingredients used, and preferred cooking methods. Students will also examine the issues and conditions which affect the availability and quality of food in the global market.

**INDEPENDENT LIVING (ADULTING 101)**

*20 weeks • ½ credit*

This course is designed to prepare students for the realities and responsibilities of managing all aspects of adulthood: education, career, interpersonal relationships, civic involvement, and financial security. Students will need the ability to make knowledge-based decisions as they learn to navigate the demands of the 21st century.

# BOCES CAREER AND TECHNOLOGY OFFERINGS

- Auto Body Technology
- Automotive Technology
- Computer Application Technology & Web Development
- Computer Systems & Network Administration
- Construction & Building Trades
- Cosmetology
- Criminal Justice
- Culinary Arts
- Early Childhood Education
- Graphic Design & New Media
- Health Related Occupations I & II
- Heavy Equipment Repair & Operation
- Outdoor Power Equipment & Powersports Technology
- Plant, Animal & Life Sciences
- Residential & Industrial Electricity
- Machining & Welding
- NEW VISIONS PROGRAM
- Medical Professions