

# MIDDLE SCHOOL COURSE DESCRIPTIONS

## ART

Fees may be required for Art Courses

		GRADE	CREDIT
<b># 1026 ART FOUNDATIONS 1</b>	<b>(A)</b>	<b>7, 8, 9</b>	<b>.5-1.0</b>
This class is designed to provide an overview of Visual Arts while studying a broad variety of art tools and materials. With an emphasis on studio production, this course is designed to develop higher-level thinking, art related technology skills, art criticism, art history, and aesthetics. A material fee may be required.			
<b># 1027 ART FOUNDATIONS 2</b>	<b>(A, E)</b>	<b>8, 9</b>	<b>.5-1.0</b>
Prerequisite: ART FOUNDATIONS 1 This class is designed to provide an overview and introduction to Visual Arts through studying a variety of art tools and materials. This course builds on Foundation 1 with a more in-depth experience with fewer art forms. With an emphasis on studio production, this course is designed to develop higher-level thinking, art-related technology skill, art criticism, art history, and aesthetics.			
<b># 1029 CERAMICS 1</b>	<b>(A)</b>	<b>8, 9</b>	<b>.5</b>
A course for beginning art students with an emphasis in basic ceramic techniques including hand building, wheel throwing, glazing, and firing.			
<b># 1044 DRAWING 1</b>	<b>(A)</b>	<b>9</b>	<b>.5</b>
A course which covers a variety of basic techniques and media with an emphasis on contour line, perspective vertical line, and numerous shading techniques. Students review current and past artists through a slide and lecture series.			

## MUSIC

An instrument use fee may be required for Music Courses

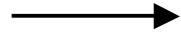
<b># 1302 ORCHESTRA 1</b>	<b>(A)</b>	<b>7, 8, 9</b>	<b>.5-1.0</b>
For students who would like to learn to play a violin, viola, cello, or string bass. No experience necessary, one-half hour daily practice required. Violas, cellos, basses may be rented from the school at a nominal fee.			
<b># 1303 ORCHESTRA 2</b>	<b>(A)</b>	<b>7, 8, 9</b>	<b>.5-1.0</b>
An intermediate-level, orchestra class which will study and perform intermediate-level literature for orchestra. Rehearsals and performances outside of class time are part of the course requirement and will constitute a portion of the grade. Teacher approval required.			
<b># 1304 ORCHESTRA 3</b>	<b>(A)</b>	<b>7, 8, 9</b>	<b>.5-1.0</b>
An advanced-level, orchestra class which will study and perform advanced-level literature for orchestra. Rehearsals and performances outside of class time are part of the course requirement and will constitute a portion of the grade. Teacher approval required.			
<b># 1306 BAND 1 WOODWINDS (A)</b>		<b>7, 8, 9</b>	<b>.5-1.0</b>
A beginning band class offered for students who wish to learn the saxophone, flute, or clarinet.			
<b># 1307 BAND 1 BRASS</b>	<b>(A)</b>	<b>7, 8, 9</b>	<b>.5-1.0</b>
A beginning class offered for students who wish to learn the cornet, trumpet, euphonium horn, trombone, or tuba.			

- # 1346 CONCERT BAND (A) 9 1.0**  
 An intermediate-level band class which will study and perform intermediate-level literature for band. Rehearsals and performances outside of class time are part of the course requirement and will constitute a portion of the grade.
- # 1348 JAZZ BAND (A) 9 .5**  
 Prerequisite: AUDITION – Teacher Approval  
 This course is open to students whose interests are in performing jazz, rock, and related music literature. The group is designed to provide fundamental knowledge of this music through performance. Rehearsals and performances outside of class time are part of the course requirement and constitute a portion of the grade.
- # 1349 SYMPHONIC BAND (A) 9 1.0**  
 An advanced-level band class which will study and perform advanced-level literature for band. Rehearsals and performances outside of class time are part of the course requirement and will constitute a portion of the grade.
- # 1325 CHOIR 1 MIXED (A) 7, 8, 9 .5-1.0**  
 This class is open to all students. Emphasis will be placed on quality vocal production, part singing, and music reading skills. Rehearsals and performances outside of class time are part of the course requirement and will constitute a portion of the grade.
- # 1332 CHOIR 1 TENOR/BASS (A) 7, 8, 9 1.0**  
 A non-select group open to students who sing in the tenor/bass vocal range. Two, three, and four-part music will be performed at various concerts. Primary consideration will be given to part singing, good vocal production, and the rudiments of music. Rehearsals and performances outside class time are part of this course and will constitute a portion of the grade.
- # 1333 CHOIR 1 SOPRANO/ALTO (A) 7, 8, 9 1.0**  
 A non-select group open to students who sing in the alto/soprano vocal range. Two, three, and four-part music will be performed at various concerts. Primary consideration will be given to part-singing, good vocal production, and the rudiments of music. Rehearsals and performances outside class time are part of this course and will constitute a portion of the grade.
- # 1334 CHOIR 2 MIXED (A) 8, 9 .5-1.0**  
 A vocal music course open to all students which covers three and four-part music and a review of singing fundamentals. Approval of the instructor may be required. Rehearsals and performances outside of class time are part of the course requirement and constitute a portion of the grade.
- # 1335 CONCERT CHOIR (A) 9 .5-1.0**  
 This is an advanced, vocal group concerned with advanced choral literature and techniques of singing. Rehearsals and performances outside of class time are part of the course requirement and will constitute a portion of the grade. Teacher approval required.

## FINE ARTS CHART

### 7-8 BASIC CORE 1.0 Unit Required

<p><b>DANCE</b> (SIS CODE: AD) <b>DANCE 1</b> .5 unit*</p> <p>_____and/or: _____</p> <p><b>Music</b> (SIS CODE: AM) .5 unit* selected from <b>MUSIC CONNECTIONS</b> <b>CHORUS</b> <b>BAND</b> <b>ORCHESTRA</b></p> <p>_____and/or: _____</p> <p><b>THEATRE</b> (SIS CODE: AT) <b>ART FOUNDATIONS 1</b> .5 unit*</p> <p>_____and/or: _____</p> <p><b>VISUAL ARTS</b> (SIS CODE: AV) <b>ART FOUNDATIONS 1</b> .5 unit*</p>
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### 9-12 CORE OPTIONS 1.5 Units Required

<p><b>DANCE</b> <b>Dance Levels 1-VI</b> .5 unit each <b>Dance Company</b> 1.0 unit each</p> <p><b>MUSIC</b> <b>Guitar, Music Aesthetics, and Music Composition</b> .5 unit each <b>Chorus, Band, Orchestra</b> 1.0 unit</p> <p><b>THEATRE</b> <b>Foundations 1-IV</b> .5 unit each</p> <p><b>VISUAL ARTS</b> <b>Art Foundations II, Drawing, Painting, Ceramics, Sculpture, Jewelry, FilmMaking, Art History, 3D Design, Photography, Print Making, Commercial Art and Electronic Media</b> .5 unit each</p>
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\*A student who plans to specialize in dance, music, theatre, or visual arts, as indicated on the SEOP, may fulfill the 7<sup>th</sup> and 8<sup>th</sup> grade arts requirements with 1.0 credit in one art form. This will require administrative approval on an individual basis.

## SCIENCE

### # 3101 EARTH SYSTEMS (ES) 9 1.0

Earth Systems Integrated Science core focuses on the theme of earth, physical, space, and life science contents. Students obtain knowledge based on observable evidence and understanding of interactions within and between earth systems and changes in earth systems over time.

### # 3004 BIOLOGY H (BS) 9 1.0

This is a high school core science course stressing the scientific processes of living things. The Biology Core Curriculum is a set of life science learning standards that all students are expected to know and be able to do upon completion of this course. The course is designed to emphasize problem solving and scientific reasoning. Students will learn the scientific processes related to life science and scientific intended learning outcomes. Learning activities are varied with an emphasis on student investigations in the field, laboratory, and technical research.

## Science Chart

Students must take two science core courses.  
One should come from each of two of the possible four areas of science core.

### UTAH STATE SCIENCE SCIENCE CORE CURRICULUM

<b>EARTH SCIENCE (ES)</b> EARTH SYSTEM (9 <sup>TH</sup> ) AP ENVIRONMENTAL SCIENCE	<b>PHYSICS (PS)</b> PHYSICS PHYSICS-PRINCIPLES OF TECH AP PHYSICS
<b>BIOLOGICAL SCIENCE (BS)</b> BIOLOGY BIOLOGY-AG SCI & TECHNOLOGY HUMAN BIOLOGY AP BIOLOGY	<b>CHEMISTRY (CS)</b> CHEMISTRY AP CHEMISTRY

### WORLD LANGUAGES French, German, Spanish

**# 4100 FRENCH 1 (E) 8, 9 1.0**

A course designed to teach elementary skills in listening, speaking, reading, and spelling. Beginning vocabulary covers: classroom and school subjects, foods, clothing, telling time, reading the calendar, talking about weather and seasons, modes of transportation, and common locations. An appreciation of the culture of the countries where the language is spoken is also developed.

**# 4101 FRENCH 2 (E) 9 1.0**

Prerequisite: FRENCH 1

A course designed to teach intermediate skills in listening, speaking, reading, and writing including further development of vocabulary for dining, traveling, shopping, personal feelings, and activities. In addition, an appreciation of the culture of the countries where the language is spoken is further developed.

**# 4120 GERMAN 1 (E) 8, 9 1.0**

A course designed to teach elementary skills in listening, speaking, reading, and spelling. Beginning vocabulary covers: classroom and school subjects, foods, clothing, telling time, reading the calendar, talking about weather and seasons, modes of transportation, and common locations. An appreciation of the culture of the countries where the language is spoken is also developed.

**# 4121 GERMAN 2 (E) 9 1.0**

Prerequisite: GERMAN 1

A course designed to teach intermediate skills in listening, speaking, reading, and writing including further development of vocabulary for dining, traveling, shopping, personal feelings, and activities. In addition, an appreciation of the culture of the countries where the language is spoken is further developed.

**# 4180 SPANISH 1 (E) 8, 9 1.0**

A course designed to teach elementary skills in listening, speaking, reading, and spelling. Beginning vocabulary covers: classroom and school subjects, foods, clothing, telling time, reading the calendar, talking about weather and seasons, modes of transportation, and common locations. An appreciation of the culture of the countries where the language is spoken is also developed.

**# 4181 SPANISH 2 (E) 9 1.0**

Prerequisite: SPANISH 1

A course designed to teach intermediate skills in listening, speaking, reading, and writing including further development of vocabulary for dining, traveling, shopping, personal feelings, and activities. In addition, an appreciation of the culture of the countries where the language is spoken is further developed.

## **LANGUAGE ARTS**

### **Language Arts, Reading, Journalism, Creative Writing**

**# 4542 LANGUAGE ARTS 9 (LA) 9 1.0**

This course is designed for students whose reading and writing skills are at or near grade level. Emphasis is placed on the processes, skills, and strategies for effective reading and comprehension. Students read, write, and discuss a variety of texts that are functional, informational, and literary. The course includes instruction in listening and speaking, viewing, and writing.

**# 4543 LANGUAGE ARTS 9 H (LA) 9 1.0**

Prerequisite: Teacher approval

This is an accelerated course for students who demonstrate strong ability and performance in all forms of communication, written and oral. The course includes instruction in critical reading and analysis skills, listening and speaking processes, viewing, and writing. The course is both reading and writing intensive. Students will have opportunities to read, write, and discuss a variety of challenging texts that are functional, informational, and literary.

**# 1640 SPEECH 1 (E) 8, 9 .5-1.0**

A non-competitive class which teaches the fundamentals of effective speeches, oral communication, delivery, voice gestures, and articulation. The course also covers interpersonal communication and group discussion techniques.

## **MATHEMATICS**

**(Refer to the chart for the sequence of courses, following this section.)**

### **HIGH SCHOOL GRADUATION REQUIREMENTS FOR MATHEMATICS**

1.0 units of credit:

A minimum of Elementary Algebra or Applied Mathematics I AND Geometry or Applied Mathematics II. Any advanced mathematics courses in the sequence, beyond those stated here, also count for the 2.0 units of mathematics credit for graduation.

**# 5114 ELEMENTARY ALGEBRA (APPLIED) (M) 9 1.0**

Prerequisite: Pre-algebra (Applied)

Applied algebra is an intervention for students requiring additional experience in developing conceptual understanding and building mathematical skills. This course meets the needs of students who need a stronger base in algebra before moving on in their mathematical studies. Students in these classes experience a hands-on approach to the same core concepts taught in regular algebra. The activities meet the needs of students with a variety of learning styles. The major emphasis is to acquire the ability to understand and apply mathematics to solve problems in the world using algebra skills and concepts.

**# 5110 ELEMENTARY ALGEBRA (M)                      7, 8, 9                      1.0**

Prerequisite: Mastery of Pre-algebra

Students in Elementary Algebra will learn algebra as a style of thinking for formalizing patterns, functions, and generalizations. In this course, students will expand previously learned quantitative rational number relationships to include the irrational numbers. The focus will be on proficiency in recognizing and working effectively with linear relationships and their corresponding representations in tables, graphs, and equations; such proficiency includes competence in solving linear equations, generating equivalent expressions, using formulas, and applying proportionality. To develop proficiency in symbolic and graphical representations, students will use physical models, visual models, and technology. While mathematical skills will be developed, teaching will focus on the understanding of concepts in-depth enabling students to apply mathematical skills and make meaningful connections to life's experiences.

**# 5120 GEOMETRY    (M)                      8, 9                      1.0**

Prerequisite: Elementary Algebra

Students in Geometry study Euclid's postulates and theorems as the basis for an axiomatic system. Students will explore geometry through inductive and deductive processes, technology, constructions, manipulatives, and algebraic connections. Topics of investigation include logic, angle and line relationships, triangles and other polygons, congruence, and similarity. Students also study coordinate geometry. Trigonometric ratios of sine, cosine, and tangent are used to solve triangle problems. Students will use area, volume, geometric probability, and geometric relationships to solve real-life problems. While mathematical skills will be developed, teaching will focus on the understanding of concepts in-depth, enabling students to apply mathematical skills and make meaningful connections to life's experiences.

**# 5111 INTERMEDIATE ALGEBRA H (M)                      9                      1.0**

Prerequisite: Elementary Algebra, Geometry, and teacher approval.

Intermediate Algebra will build upon the knowledge previously learned in Elementary Algebra and Geometry. It will provide students with the reasoning skills necessary for many careers and the mathematical tools they will need to be successful in advanced mathematics classes. The study of functions is the primary focus of Intermediate Algebra. Exploring functions, investigating their behaviors, and making and verifying reasonable guesses about those behaviors will develop students' reasoning and thinking skills. To develop these important skills, students will study functions algebraically by traditional methods, as well as numerically and graphically using technology and manipulatives. Types of functions receiving a major focus in the course will be quadratic, absolute value, radical, and sine and cosine.

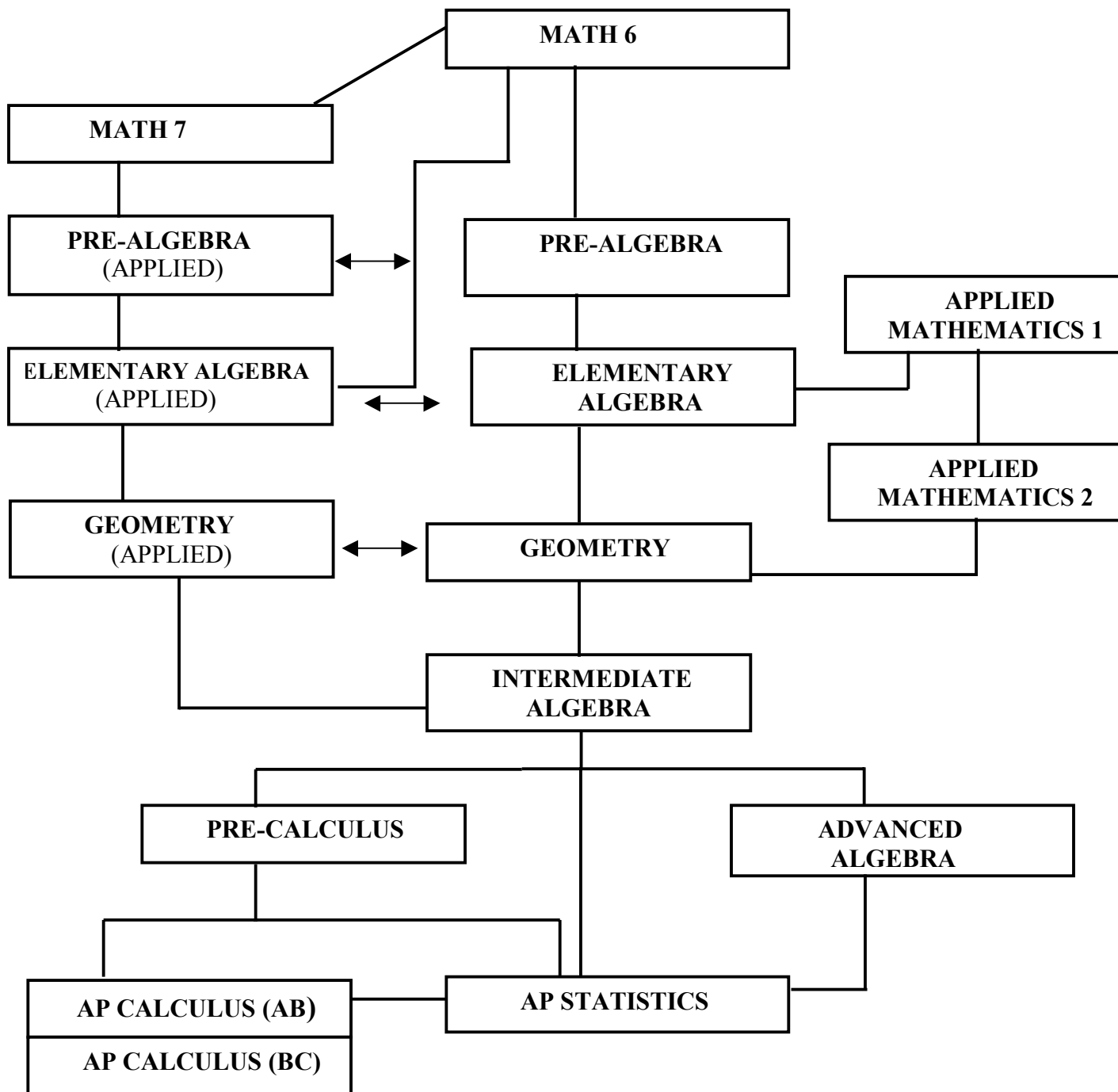
The course will also emphasize the concepts of complex numbers, matrices, systems of equations inequalities, and probability using permutations and combinations. While mathematical skills will be developed, teaching will focus on the understanding of concepts in-depth, enabling students to apply mathematical skills and make meaningful connections to life experiences.

## **Mathematics Course Sequences and Prerequisites**

### **HIGH SCHOOL GRADUATION REQUIREMENTS FOR MATHEMATICS**

2.0 units of credit:

A Minimum of Elementary Algebra or Applied Mathematics I AND Geometry or Applied Mathematics II. Any advanced mathematics courses in the sequence, beyond those stated here, also count for the 2.0 units of mathematics credit for graduation.



## COMPUTER SCIENCE

**# 5602 COMPUTER SCIENCE 1 (E)**

**8, 9**

**.5-1.0**

Prerequisite: Keyboarding 1 (strongly suggested)

This course is for students with no computer background. Knowledge of computer development and operation will be taught. Word processing, database, spreadsheet, programming, and graphic skills will be introduced.

## SOCIAL STUDIES

**# 6021 GEOGRAPHY FOR LIFE (SS) 9 1.0**

This course introduces students to cultural and physical geography. The framework of this course is the five themes of geography—location; place; human interaction with the physical environment; the impact of movements of people, ideas, and things; and similarities and differences within and between regions. In addition, the course emphasizes critical, causal, interpretive and reflective thinking skills through observing, reading, writing, listening, speaking, and problem solving. The course is a required core course for graduation

**# 6022 GEOGRAPHY FOR LIFE H (SS) 9 1.0**

This course introduces students to cultural and physical geography. The framework of this course is the five themes of geography—location; place; human interaction with the physical environment; the impact of movements of people, ideas and things; and similarities and differences within and between regions. In addition, the course emphasizes critical, causal, interpretive and reflective thinking skills through observing, reading, writing, listening, speaking, and problem solving. This course emphasizes in-depth reading, writing, and independent study. Students will be selected based on teacher recommendation, SAT scores, and GPA. The course fulfills the required core course for graduation from high school.

## HEALTHY LIFESTYLES

**# 7030 PARTICIPATION SKILLS & TECHNIQUES (HL) 9 .5**

A course designed to develop skills and techniques in a variety of team and individual sports as well as improvement in personal fitness. This class is required for graduation.

**# 7020 BEGINNING DANCE (A, HL) 9 .5**

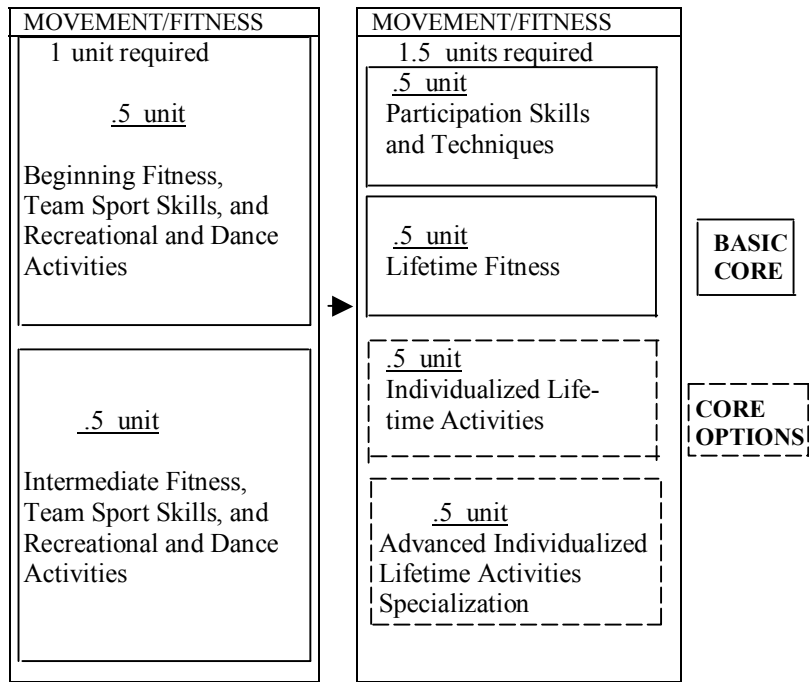
A course offering basic dance technique, fitness fundamentals, movement qualities, and rhythm with an emphasis on creativity, sequencing, and problem solving.

## **RESPONSIBLE HEALTHY LIFESTYLES MOVEMENT AND FITNESS CORE**

7-8 9-12

See the chart on the next page.





## APPLIED TECHNOLOGY EDUCATION

### BUSINESS

**# 8047 COMPUTERS IN BUSINESS (ATE) 8, 9 .5**

Prerequisite: Keyboarding 1

**Students will explore Web Page Design, Desktop Publishing, Presentations, and Personal Economics. Exposure to business software applications will be an integral part of this class, including Internet browsers, search engines, word processing, and multimedia software.**

### FAMILY AND CONSUMER SCIENCES

**# 8725 CLOTHING 1 (ATE) 8, 9 .5**

This course teaches beginners to be successful in clothing construction and consumer skills. Choosing and using patterns, fabrics, and notions; use and care of today's sewing machines and sergers; and basic clothing construction methods are included. Students may choose from a variety of projects based on individual skill level and preference. NOTE: A fee may be charged for consumable items used in this class. Students will be expected to furnish some materials for this class where such materials become the property of the students.

**# 8726 CLOTHING 2 (ATE) 8, 9 .5**

Prerequisite: Clothing 1

This course is designed to build on construction techniques taught in Clothing 1. Topics will include social and psychological aspects of clothing; use of clothing and textiles projects; the selection, construction, maintenance, and alteration of clothing. Two or more intermediate-level, clothing, construction projects will be completed in this course. NOTE: A fee may be charged

**# 8750 FOODS AND NUTRITION 1 (ATE) 8, 9 .5-1.0**

This introductory course is designed for students who are interested in understanding the principles of nutrition and in maintaining a healthy life style. Attention will be given to selection and preparation of food and personal health and well-being. NOTE: A fee may be charged for consumable items used in this class.

**# 8751 FOODS AND NUTRITION 2 (ATE) 8, 9 .5-1.0**

This course is designed to be a continuation of the food exploration begun in Food and Fitness 1. Topics to be covered in depth will include principles of nutrition, food selection, preparation, meal management, and food economics. Also included may be holiday projects, cooking for special needs, food service, entertaining, and foreign foods. NOTE: A fee may be charged for consumable items used in this class.

### **TECHNOLOGY EDUCATION**

**# 8001 TECHNOLOGY LAB 1 (ATE) 8, 9 .5  
(Technology Education 1)**

The laboratory and laboratory activities are of the present and of the future. This program is intended to initiate the development of technological literacy in middle school students. The areas covered are manufacturing, communications, transportation, and construction.

**# 8002 TECHNOLOGY LAB 2 (ATE) 8, 9 .5  
(Technology Education 2)**

Prerequisite: TECHNOLOGY LAB 1

The laboratory and laboratory activities are of the present and of the future. This program is intended to initiate the development of technological literacy in middle school students. The areas covered are manufacturing, communications, transportation, and construction.

### **TRADE, TECHNICAL AND INDUSTRIAL EDUCATION**

**# 8045 MANUFACTURING TECHNOLOGY (ATE) 8, 9 .5-1.0  
(Cabinetmaking & Millwork 1)**

This is a basic introduction to woodworking for boys and girls. Students will learn proper use of hand and power tools. They will develop plans and procedures for individual projects. Construction and manufacturing as related to technology will be addressed. Fees may be required.

**# 8048 MANUFACTURING TECHNOLOGY (ATE) 8, 9 .5-1.0  
(Cabinetmaking & Millwork 2)**

Prerequisite: Cabinetmaking & Millwork 1

This is a course in woodworking for boys and girls. Projects will be more advanced. Communications will be introduced through project planning and blueprinting. Safety and proper use of hand and power tools will be stressed. Fees may be required.

**# 8405 COMMUNICATION TECHNOLOGY (ATE) 9 .5-1.0**  
**(Draft/Design)**

An activity-oriented course which includes the following topics: lettering, freehand sketching, orthographic projection, geometric construction, dimensioning, sectioning, reproduction, pictorial drawing, and auxiliary views. Technical drawing instruments including basic CAD systems and techniques are used. Fees may be required.