



MIRIAM

ACADEMY

Course Book

2020-2021

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GRADUATION REQUIREMENTS/CREDITS

The Board of Miriam establishes the following graduation policy and instructs the administration to develop necessary procedures for proper implementation.

English	4	
Social Studies	3	(Must include 1/2 credit of American Government and 1 credit of US History)
Math	3	(4 years of math is recommended for college admission)
Science	3	
Practical Arts	1	(Business, Computer applications, Multimedia—TV Studio))
Personal Finance	1/2	
Fine Arts	1	(Art, Music)
Physical Education	1	
Health	1/2	
Electives	7	
TOTAL	24 credits	

Also need to have successful completion of the Missouri, U.S. Constitution tests

NOTE: Foreign language is **not** required for a Miriam Academy diploma but 2 credits of foreign language are recommended for **some** 4-year college admissions or degree programs. Foreign language is offered by Miriam Academy through on-line courses.

DIPLOMAS

Miriam Academy issues a high school diploma upon the satisfactory completion of a program of study which consists of twenty-four (24) units of credit which is recommended by the State of Missouri Department of Elementary and Secondary Education (DESE) and approved by The Independent Schools of the Central States (ISACS). Miriam Academy recommends eight semesters of high school attendance. Students who have attained 24 units of credit may request early departure if they plan to attend a four-year college, attend a two-year college or technical school, enter the military service or work full time. Requests for early departure should be made a minimum of two weeks prior to the end of the seventh semester. Under these circumstances, each request will be evaluated by the Head of School.

Students may earn credit for a high school diploma through regular high school courses or in connection with any of the following:

1. With prior approval of the Head of School, units of credit may be earned in an accredited summer school program or approved alternative high school program
2. With prior approval of the Head of School, credit from correspondence courses or high school courses offered through an accredited night school or high school course offered by accredited schools providing internet, distance learning, or other electronic media courses may be accepted toward meeting diploma requirements. Costs of these courses may be the responsibility of the student.

GRADING SYSTEM

NOTE: The school year is organized on a semester basis with each semester divided into three, six-week grading periods. Report cards are issued at the end of each six-week period. Grades are cumulative. Grading periods are not averaged together to create the semester grade. Each grading period reflects the current total cumulative grade for that class. The third six-week grade report, with the final exam averaged in, results in the semester grade. Only the semester grade is entered on the student's permanent record.

GRADING SCALE

A	90-100	4	P/F	Pass/Fail
A-	90-92	3.667		
B+	87-89	3.333	I	Incomplete: Work must be completed at the end of the semester.
B	83-86	3		
B-	80-82	2.667		
C+	77-79	2.333	NC	No Credit
C	70-76	2		
C-	67-69			
D	63-66	1		
D-	60-62			
F	59 or below	0		

HONORS COURSES

Advanced Environmental Science
Honors AB/BC Calculus
Honors College Algebra (for college credit)
Honors Intermediate Algebra (for college credit)

CALCULATING GRADE POINT AVERAGE (G.P.A.)

The grade-point average is computed by adding the grade-point values of the student's semester grades in courses and dividing by the number of units carried. All subjects are included except for subjects graded on a pass/fail or audit basis.

Step 1: Using the grading scale, calculate and add grade points for classes

Step 2: Divide total grade points earned by number of classes taken

Example:	<u>Grade</u>	<u>Grade Points</u>
Class #1	B	3
Class #2	C	2
Class #3	A-	3.667
Class #4	B	3
Class #5	B	3
Class #6	A	4
Class #7	C+	2.333
	Total	21
21 points divided by 7 classes = GPA of 3.0		

EARNING CREDIT

1. The Head of School is directed to assign credit values for courses offered by or through the school and to develop formulas and procedures for awarding credit to transfer students who transfer from a district that uses a different standard for awarding credit.
2. Miriam Academy recognizes units of credit obtained through correspondence courses or courses delivered primarily through electronic media (such as satellite video, cable video, or computer driven or online courses) from a school accredited by the Independent Schools of the Central States or its equivalent regional accrediting agency.
3. Juniors and seniors can, upon approval, earn both high school and college credit for some coursework under some circumstances. Generally, such arrangements fall into two types: arrangements in which advanced high school courses are taught on the high school campus by teachers designated as adjunct instructors by a college or university, and arrangements in which high school students leave the high school campus and attend college classes for part of the day.

COLLEGE CREDIT

ADVANCED PLACEMENT (AP) COURSES

Advanced Placement (AP) courses give students the opportunity to earn credit or advanced standing at most of the nation's colleges and universities. AP courses are more challenging and stimulating than regular high school classes. AP courses explore subjects in greater depth, give greater opportunity for individual accomplishment, take more time and require more work. To earn AP credit, a student must take the AP exam at the end of the spring semester. The student cost for taking an exam is approximately \$100. A score of 3, 4 or 5 can qualify a student for college credit. High school credit will be awarded in any case, based on the semester course grades (note: a grade of "F" will receive no credit). Students are encouraged to check with each institution they are interested in attending to find out specifically which dual credit and AP courses will be accepted.

Hon AP US History	Hon AP English Literature	Hon AP Statistics
Hon AP Calculus AB	Hon AP Amer. Govt./Politics	Hon AP Studio Art
Hon AP Calculus BC	Hon AP Physics I	

ADVANCED COLLEGE CREDIT

Advanced College Credit provides an opportunity for qualified high school juniors and seniors to begin experiencing the academic rigors of college course work. In addition to receiving credit toward high school graduation for selected academic courses, students can earn college credit.

Miriam Academy currently does not offer Advanced College courses, but may in the future. Courses currently offered for Advanced College credit may change before the beginning of the school year due to changes in the college's program policies and staffing changes. There is no guarantee that credit will be available until after the school year begins and courses have been certified by the college.

Students who meet registration requirements, course prerequisites, tuition payment deadlines, and successfully complete the course, receive graded course credit which appears on a transcript from the university. If a student takes multiple courses, all courses and grades will appear on the transcripts. Students will also receive high school credit for courses passed and all course grades will be reported on the high school

transcript. When applying to colleges, students will need to send both a school transcript and transcripts from advanced college credit universities. The university transcripts must be requested directly from the university. To earn advanced college credit, students must meet the requirements as determined by the Missouri Department of Higher Education.

These courses are dual credit college courses. Students may choose to take the courses for college credit, or simply for credit towards high school graduation. Regardless of the choice the student makes, the course rigor and expectations are designed as a college course, and compare to the rigor and expectations placed on students enrolled in the same course on the college campus.

NOTE: for more information, contact Katie Moorman through email: Kmoorman@miriamstl.org

Please keep in mind that the university deadlines are not the Miriam Academy deadlines. *If students miss the regular registration deadline, additional fees may apply.*

Below is a list of Miriam Academy courses that **may** be available for advanced credit:

<u>Course</u>	<u>Semester</u>	<u>College</u>	<u>Credits</u>
Intermediate Algebra			
College Algebra		UMSL	3

DUAL ENROLLMENT St. Louis Community College

Dual enrollment allows students to get a head start on their college career while still in high school by taking classes at St. Louis Community College. High school credit may be awarded for some dual enrollment courses.

Requirements:

1. Junior or Senior with a GPA of 2.0 or higher
2. Permission from your Counselor
3. Complete an application and have a high school transcript sent to the admissions office at the location of your choice
4. Schedule an appointment with an admissions coordinator at the location of your choice
5. Take the entry assessment test at St. Louis Community College

The St. Louis Community Colleges will admit all high school graduates. However, students must qualify for college-level courses by taking the Compass Test, a free untimed, computerized placement test. Source: stlcc.edu

NOTE: Students who plan to attend college should consult the web sites or catalogues of the school in which they have an interest, in order to obtain more specific recommendations. The use of the internet and other computer programs is recommended. As college admissions become more competitive, it is important that applicants be well prepared in the academic areas.

Why take a test? The ACT or SAT are college predictors of academic success. Some colleges and universities require scores for admissions, but many do not.

1st time students take the ACT, it is free of charge (Miriam Academy pays for a student's first ACT testing (mostly given after sophomore year to gather baseline data for students)).

	ACT	SAT
Test length	3hrs 25min	3hrs 45min
Test structure	1 English, 1 Math, 1 Reading, 1 Science	3 Critical Reading, 3 Math, 3 Writing
Scoring	Composite score of 1-36 based on average of scores from 4 subjects	Total score of 600-2400 based on adding scores from 3 subjects
Wrong answer penalty	No penalty for wrong answers	¼ point subtraction for each wrong answer
Test contact information	ACT, Inc. 1-319-337-1000 actstudent.org	The College Board 1-866-756-7346 collegeboard.com

Other factors which can affect college admission:

- Recommendations
- Extra-Curricular and Leadership Activities
- Number of Honors and /or College Credit Courses
- Pattern of Strong /Challenging Courses

Example: Admission Standards of Four Missouri Colleges

College	Location	Private/Public	ACT	GPA
Fontbonne University	Saint Louis	Private	20	2.5
Missouri State University	Springfield	Public	24	2.5
(Sliding scale of ACT & GPA)			18	3.5
Southeast MO State University	Cape Girardeau (Opt. 1)	Public	21	2.0
Southeast MO State University	Cape Girardeau (Opt. 2)	Public	18	2.5
University of Missouri	Columbia	Public	Avg = 25	

RECOMMENDED HIGH SCHOOL CORE CURRICULUM

The coordinating board for higher education has approved a minimum recommended (17) unit core curriculum requirement for admission to all public four-year colleges and universities. The recommended core curriculum is:

English – 4 units	Science – 3 units
Mathematics – 4 units (algebra or higher)	Visual/Performing Arts – 1 unit
Social Studies – 3 units	Electives – 2 (2 years of a foreign language is recommended)

HIGH SCHOOL COURSE REQUIREMENTS FOR THE UNIVERSITY OF MISSOURI SYSTEM

- **Four (4)** units of **English**
- **Four (4)** units of **Mathematics** (algebra or higher)
- **Three (3)** units of **Science** (not including general science) Must be laboratory courses and units from at least two of the following: Physical science, biology, physics, chemistry, and earth science.
- **Three (3)** units of **Social Studies**
- **One (1)** unit of **Fine Arts**, to be taken in visual arts, music, dance or theatre
- **Two (2)** units of the same **Foreign Language**

SCHOLARSHIP PLANNING

These are helpful hints for students hoping to be awarded scholarships from the government, colleges, universities, organizations and businesses. Most scholarships require all or almost all of the following:

High SAT or ACT score	Community activities	Strong academic classes
High GPA and rank in class	Employment	School activities
Essay	Recommendations from teachers, administrators, other adults	

ONLINE COURSES

Online Courses allow Miriam Academy to:

- Expand the range of courses and opportunities offered to students
- Offer courses for students where there are no qualified teachers to teach the course
- Offer students a course not offered by their school
- Provide courses for students who have schedules that prevent them from taking a course when it is offered
- Present high quality instruction to students who are in alternative education settings or on home and hospital instruction

Who should take online courses?

Students who choose to take online courses must be independent learners, goal-oriented, and persistent, while also demonstrating proficiency in reading and basic computer skills. Students are expected to take responsibility for the learning process which will require setting a schedule and sticking to it so that deadlines are met and the course is completed in the appropriate timeframe.

How will online courses fit into a student's schedule?

Students will have two options in regards to how an online course might fit into their schedule.

Option #1: The online course will be scheduled into a period that occurs during the traditional school day (periods 1-7).

Option #2: The online course will be in addition to the courses taken during the traditional school day (i.e. the student completes the course at home, outside of periods 1-7).

When do students need to finish online courses?

Courses that are worth 0.5 credits need to be finished by the end of the semester and courses that are 1.0 credits are divided into two semesters that must be completed by the end of the corresponding semester. Students should plan and pace themselves to finish on or before the end of the semester. If a student finishes prior to the end of the semester they will not be able to begin another online course for credit during that same semester time slot however, the student could begin working on a course for the next semester and/or use the time to work on other traditional courses they are taking that semester.

Online Courses (current platform is Odysseyware)

Online credit course offerings currently include those listed below however, other choices may emerge so students should check with their counselor for the latest information.

Assessments & Diagnostics

ACT Prep

Business

Business Law

Personal Finance

Fine Arts

Art History

Music Appreciation

Digital Arts

Health Science

Veterinary

History

Economics

Psychology

Manufacturing

Careers in Manufacturing Processes

Mathematics

Consumer Math

Science

Earth Science

Environmental Science

Science, Technology, Engineering &

Mathematics

STEM and Problem-solving

Principles of Coding

Forensic Science

Astronomy

Game Design

World Language

French 1,2

Spanish 1, 2

AP/Electives

Human Geography

Calculus

For more information, contact Katie Moorman, counselor, at kmoorman@miriamstl.org

Miriam Academy Course Offerings

ENGLISH

English I, II, III, IV
Creative Writing-Journalism/Yearbook

SOCIAL STUDIES

United States History
American Government
World History & Cultures
Criminology
Current Events
Psychology
Sociology

MATH

Foundational Math
Pre-Algebra
Essentials of Algebra
Algebra I
Geometry
Intermediate Algebra / Algebra II
Honors Algebra II
College Algebra
Honors Pre-Calculus
Honors AP Calculus AB
Honors AP Calculus BC

SCIENCE

Physical Science Concepts
Physical Science
Topics of Chemistry
Chemistry
Foundations of Biology
Biology
Advanced Environmental Science
Physics
Science Discovery – Project Based Learning

BUSINESS/ PRACTICAL ARTS/PERSONAL FINANCE

Culinary Arts
Personal Finance
Keyboarding/ Computer Applications
Multimedia (TV STUDIO)
Marketing
Entrepreneurship/Advanced Marketing II
Cooperative Career Education
Child Development

FINE ARTS

Intro to 2D Art
Ceramics
Fine Arts Survey
Metalsmithing
Advanced Art

PHYSICAL EDUCATION/HEALTH

Health
Physical Education I
Physical Education II
Physical Fitness
Life Skills

ELECTIVES

Adult Living
Learning Strategies
Reading Strategies/Independent Reading

CAREER AND TECHNICAL EDUCATION/ COUNSELING DEPT

Interpersonal Communications
Freshmen group (PEERS)
Career Exploration
Cooperative Work Experience
On-line classes
Cooperative Career Education

Summer Experience (freshmen)

- Work at Switching Post
- Field Trips (social skills)
- Academics

COURSE DESCRIPTIONS

~ ENGLISH ~

ENGLISH I

Grade Level: 9

Length: Year

Credit: 1.0 English

Prerequisite: *None*

COURSE DESCRIPTION: The emphasis in the class is an expanded curriculum focusing on writing skills and multiple reading selections. This course requires reading and writing assignments. Students will also be exposed to such works as the Little Prince, Lord of the Flies, To Kill a Mockingbird, Flowers for Algernon, Night, Secret Life of Bees

ENGLISH II

Grade Level: 10

Length: Year

Credit: 1.0 English

Prerequisite: *Successful completion of English 1*

COURSE DESCRIPTION: English 2 is a two semester course following completion of English 1, which uses a variety of literary genres to facilitate the mastery of reading and writing skills and strategies. Students continue to learn to analyze and interpret literature and to communicate effectively with a variety of audiences and purposes. Students will read several major works including Night by Elie Weisel, Tom Sawyer by Mark Twain, Adventures of Ulysses, and Romeo and Juliet.

ENGLISH III

Grade Level: 11

Length: Year

Credit: 1.0 English

Prerequisite: *Successful completion of English 2*

COURSE DESCRIPTION: A class studying fiction and non-fiction by American writers from early 20th Century to the present day. Argument, expository, analytical, and research writing included. Works include: Into the Wild, the Things They Carried, Secret Life of Bees.

ENGLISH IV

Grade Level: 12

Length: Year

Credit: 1.0 English

Prerequisite: *Successful completion of three credits of English*

COURSE DESCRIPTION: This course focuses on the skills of reading, writing, speaking, listening, information literacy, and vocabulary. Students will read a wide range of print and non-print texts, for the purpose of making connections between themselves and their world, both as Americans and as global citizens. Students will also compose a variety of essays and documents which include: personal essay, resume, various work place communications and a research paper. Seniors will continue to learn about grammar, writing convections. Literature, reading novels.

CREATIVE WRITING

Grade Level: 10

Length: Semester

Credit: .5 English

Prerequisite: *English 1*

COURSE DESCRIPTION: A semester class for sophomores intended to offer experience in writing creative non-fiction, short fiction, or poetry. Additionally, students may be encouraged to develop their skills necessary to produce the Miriam Academy School Yearbook. As a member of the yearbook staff, students will accept responsibility for deadlines, polish their writing skills in journalistic style and learn how to follow layout and design copy for mass publication using Adobe InDesign.

~ SOCIAL STUDIES ~

UNITED STATES HISTORY

Grade Level: 9

Length: Year

Credit: 1.0 Social Studies

Prerequisite: *None*

COURSE DESCRIPTION: U.S. History examines the major events in American history from the nation's beginnings to the present day, with in-depth coverage of the twentieth century. In studying the political, economic, social and cultural development of the nation, students can develop an appreciation of American heritage.

AMERICAN GOVERNMENT

Grade Level: 10

Length: Semester

Credit: .500 Social Studies

Prerequisite: *None*

COURSE DESCRIPTION: In American Government, students will gain a practical understanding of the principles of democracy and republicanism. Civil liberties, legal rights and responsibilities, and the working of the American judicial system are studied. This course contrasts our capitalistic economy to other economic systems and examines the theory of supply and demand. The students will also examine the framework of the State of Missouri Government, and other documents that shape the United States Government.

WORLD HISTORY & CULTURES

Grade Level: 11

Length: Year

Credit: 1.0 Social Studies

Prerequisite: *None*

COURSE DESCRIPTION: World History will encompass first civilizations through the Middle Ages. Students will gain an appreciation of the early civilizations and cultural traditions. Understanding the past will assist students in comprehending their own times.

World History and Cultures encompasses the early American civilizations through the era of 20th Century Imperialism. Students will appreciate the role of new ideas, the impact of science and technology and the importance of cultural development in the modern world. The second semester encompasses the early American Civilizations through the era of the 20th Century Imperialism. Students will appreciate the role of new ideas, the impact of science and technology and the importance of cultural development in the modern world. Emphasis is placed on the development of critical thinking skills. Additional outside reading, research, creative projects, free response and document based writing are required.

World History and Cultures looks at the wars of the 20th Century and the challenges of contemporary society. Students will examine the cause and effect of the World Wars, post war changes and the challenges of global issues.

CRIMINOLOGY

Grade Level: 11,12

Length: Semester

Credit: .500 Social Studies

Prerequisite: *None*

COURSE DESCRIPTION: Criminology is the study of deviant criminal behavior. Topics in this course include serial criminals, petty crimes, videos of the study of criminals, the cause of behaviors leading to criminal behavior and the remediation of criminals in society.

~ SOCIAL STUDIES cont. ~

CURRENT EVENTS

Grade Level: 10, 11,12

Length: Semester

Credit: .500 Social Studies

Prerequisite: *None*

COURSE DESCRIPTION: This course is aimed at better familiarizing students with the world around them. Students will attain and develop a greater comprehension of local, national, and international issues and how those issues directly impact them. Through readings, discussions, and debates, students will learn how to craft well-reasoned opinions grounded by factual information. This course will prepare students to better understand and participate in the democratic society in which they live in.

PSYCHOLOGY

Grade Level: 10, 11,12

Length: Semester

Credit: .500 Social Studies

Prerequisite: *None*

COURSE DESCRIPTION: Psychology is the study of human behavior. Topics in this survey course include: extra-sensory perception, workings of the brain, controlling aspects of the central nervous system, classical and operant conditioning, neurotic and psychotic states, counseling and therapy, drug states, hypnosis, and workings of the senses, stress and their effect on behavior. This course is strongly recommended for the college-bound student.

SOCIOLOGY

Grade Level: 10, 11,12

Length: Semester

Credit: .500 Social Studies

Prerequisite: *None*

COURSE DESCRIPTION: Sociology is the study of group behavior. Students should have an understanding of individual behavior (psychology) to grasp the concepts about social group behavior. Online reading/research, projects, observations and group dynamics will be explored.

~ MATH ~

FOUNDATIONAL MATH

Grade Level: 9, 10, 11, 12

Length: Year

Credit: 1.0 Math

Prerequisite: *None*

COURSE DESCRIPTION: This course covers the basic of math usage in the real world; counting money, time, measurement, distance, and basic math facts. Other goals are to read word problems and solve them by working through the operations needed to solve.

ALGEBRA I

Grade Level: 9, 10

Length: Year

Credit: 1.0 Math

Prerequisite: *None*

COURSE DESCRIPTION: This course introduces the students to variables, equations, and graphs as tools for solving mathematical problems. Students will also explore polynomials, factoring, logic and discrete math, and formulate algebraic equations from real world scenarios.

GEOMETRY

Grade Level: 9, 10, 11, 12

Length: Year

Credit: 1.0 Math

Prerequisite: *Credit in Algebra 1*

COURSE DESCRIPTION: The student will apply algebraic principles as part of their analysis of geometric figures. Students will also explore formal proof and trigonometry.

ALGEBRA II - TRIGONOMETRY

Grade Level: 10, 11, 12

Length: Year

Credit: 1.0 Math

Prerequisite: *Successful completion of Geometry and Algebra I*

COURSE DESCRIPTION: This course extends the concepts introduced in algebra and geometry with an emphasis on functions and trigonometry. Students will explore complex numbers, logarithms and probability.

INTERMEDIATE ALGEBRA / ALGEBRA II

Grade Level: 10, 11, 12

Length: Year

Credit: 1.0 Math

Prerequisite: *Successful completion of Algebra I*

COURSE DESCRIPTION: The purpose of this course is to prepare students for the ACT/SAT tests along with the college level classes that s/he anticipates taking in the future. This course extends the concepts introduced in algebra and geometry with an emphasis on functions. Students will explore complex numbers, logarithms and probability. It follows the guidelines set forth by Saint Louis Community College, MTH 140 Intermediate Algebra.

HONORS ALGEBRA II - TRIGONOMETRY

Grade Level: 10, 11

Length: Year

Credit: 1.0 Math

Prerequisite: *A "B" or better in Geometry AND a teacher recommendation*

COURSE DESCRIPTION: This course extends the concepts of regular Algebra 2 - Trigonometry with a heavier emphasis on applications and more in-depth analysis allowed by a quicker pace.

~ MATH cont. ~

COLLEGE ALGEBRA

Grade Level: 11,12

Length: Year

Credit: 1.0 Math

Prerequisite: *Successful completion of Algebra 2 (Intermediate Algebra)*

+ 3.0 college credit if desired

COURSE DESCRIPTION: This course introduces students to college level algebra. It follows the guidelines set forth by Saint Louis Community College, MTH 160 College Algebra. To enroll in dual credit, students must have a 3.0 cumulative GPA and pay \$25 for first semester and \$150.50 for second semester. The dual credit part of the class is optional.

HONORS PRE-CALCULUS

Grade Level: 11,12

Length: Year

Credit: 1.0 Math

Prerequisite: *A "B" or better in Algebra 2 – Trig OR completion of College Algebra AND a teacher recommendation*

COURSE DESCRIPTION: This course extends the topics of all previous math courses with an emphasis on functions. Students will explore and model functions verbally, analytically, graphically and numerically.

HONORS AP CALCULUS AB

Grade Level: 12

Length: Year

Credit: 1.0 Math

Prerequisite: *A "B" or better in Pre-Calculus OR a teacher recommendation*

COURSE DESCRIPTION: This course is intended for students who have a thorough knowledge of college preparatory mathematics, including algebra, geometry, trigonometry, and analytic geometry. Topics covered include functions, limits, continuity, differentiation, integration, and applications. This curriculum is aligned with the Advanced Placement Calculus course.

HONORS AP CALCULUS BC

Grade Level: 12

Length: Year

Credit: 1.0 Math

Prerequisite: *An "A" in Pre-Calculus AND a teacher recommendation*

COURSE DESCRIPTION: Calculus BC is a full-year course in the calculus of functions of a single variable. It includes all topics covered in Calculus AB plus additional topics. Both courses represent college-level mathematics for which most colleges grant advanced placement and credit. The content of Calculus BC is designed to qualify the student for placement and credit in a course that is one course beyond that granted for Calculus AB.

~ SCIENCE ~

PHYSICAL SCIENCE CONCEPTS

Grade Level: 9

Length: Year

Credit: 1.0 Science

Prerequisite: *None*

COURSE DESCRIPTION: Explorations in Physical Science are presented for students with lessons designed for students who may have limited math knowledge required to comprehend topics such as velocity, speed, small machines, area, surface and mass.

PHYSICAL SCIENCE

Grade Level: 9

Length: Year

Credit: 1.0 Science

Prerequisite: *None*

COURSE DESCRIPTION: Physical Science is the science of energy and its physical effects on matter. Topics include: mechanics, motion, heat, sound, light, electricity, magnetism, and applicable earth and space science objectives.

TOPICS OF CHEMISTRY

Grade Level: 10

Length: Year

Credit: 1.0 Science

Prerequisite: *none*

COURSE DESCRIPTION: This course will focus on the study of matter and how matter can change. Emphasis will be placed on vocabulary, laboratory safety, experimental design, and problem solving skills.

CHEMISTRY

Grade Level: 10

Length: Year

Credit: 1.0 Science

Prerequisite: *Successful completion of Physical Science and Algebra I*

COURSE DESCRIPTION: Chemistry is the study of matter and energy from a molecular point of view. Through laboratory experiences and practical application, students will investigate atomic structure and the periodic table, bonding, intermolecular forces, reactions, and experimental design.

FOUNDATIONS OF BIOLOGY

Grade Level: 11

Length: Year

Credit: 1.0 Science

Prerequisite: *None*

COURSE DESCRIPTION: This course is designed for students to develop a basic understanding of living systems, inheritance, and cellular structure. Emphasis will be placed on vocabulary, laboratory safety, experimental design, and problem solving skills.

BIOLOGY

Grade Level: 11

Length: Year

Credit: 1.0 Science

Prerequisite: *Successful completion of Physical Science and Chemistry*

COURSE DESCRIPTION: Biology is the study of matter and energy within the living world. Through laboratory experiences and practical application, students will investigate concepts of modern biology, particularly in the areas of ecology, biochemistry, cell biology, energetics, genetics, DNA, and evolution.

~ SCIENCE cont.

ADVANCED ENVIRONMENTAL SCIENCE

Grade Level: 11, 12

Length: Year

Credit: 1.0 Science

Prerequisite: *None*

COURSE DESCRIPTION: Environmental Science is a multidisciplinary field that draws from the physical sciences in addition to other fields. This course teaches the connection between all living organisms within an ecosystem. It helps students better understand the impact humans have on the world around them and ways in which individuals can influence the environment through their actions. Environmental Science explains the concept of biome as a region defined by a specific climate, plant life, and animal community. Content highlights the critical value of clean water, the impact of pollution, agricultural and population issues, and various types of existing and future energy resources and technologies.

PHYSICS

Grade Level: 11, 12

Length: Year

Credit: 1.0 Science

Prerequisite: *None*

COURSE DESCRIPTION: This year long course is an introduction to Physics. Students should have an understanding of Algebra 2 concepts for successful participation in this course. It will include a description of the universe based upon the principles of Newton, with mechanics, sound, light and electricity. This class will involve textbook readings and assignments, projects, and discussions. This course is highly recommended for those students planning a science-related career.

SCIENCE DISCOVERY – Project Based Learning

Grade Level: 9, 10, 11, 12

Length: Semester

Credit: 1.0 Science

Prerequisite: *None*

COURSE DESCRIPTION: Students can explore science topics of individual interest which can include botany, astronomy, environmental science, geology, and weather. Students will learn and then apply the scientific method for experiments and research. This class will use project based learning and is for students who want to explore science topics.

~ PRACTICAL ARTS / BUSINESS / PERSONAL FINANCE ~

CULINARY ARTS

Grade Level: 10, 11, 12

Length: Semester/Year

Credit: 0.5 Practical Arts

Prerequisite: *None*

COURSE DESCRIPTION: Culinary arts course is a focused concentration on the nutrients needed to promote healthy growth and maintenance of the human body. Units of study include: identifying nutrient groups, their function and food sources; measurement skills; food preparation terms; kitchen management and safety; and the development of food preparation skills for quick breads, baked goods, dairy products, and protein-based foods. Reading food labels, shopping for and selecting recipe ingredients, and correct use of utensils and equipment to prepare food are practiced. Professional requirements of various careers and opportunities in food preparation and service are identified.

PERSONAL FINANCE

Grade Level: 10

Length: Semester

Credit: 0.5 Practical Arts

Prerequisite: *None*

COURSE DESCRIPTION: This course is designed to introduce students to personal money management principles. Content areas include budgeting, wise buying strategies, credit, credit cards, banking, checking, taxes, insurance, and investments. Students will participate in discussions, activities, internet research and computer simulations.

KEYBOARDING / COMPUTER APPLICATIONS

Grade Level: 10

Length: Semester

Credit: 0.5 Practical Arts

Prerequisite: *None*

COURSE DESCRIPTION: In this course, students will learn Word (word processing), Excel (spreadsheet), PowerPoint (graphic presentation), and Access (database management). Students will be expected to acquire and use keyboarding and internet exploration skills to compose information into meaningful documents. Students will be introduced to digital media creation through the integrations of digital images and the Microsoft Office Suite. Students will transfer learned skills from one application to another while organizing and creating professional documents. This course is recommended for students who are college bound and/or student seeking a career in business. Students earning an 80% or higher in Microsoft Office are eligible to earn articulated college credit through St. Louis Community College. Juniors and Seniors with a 3.0 cumulative GPA may receive college credit through Missouri State University for an additional fee.

MULTIMEDIA PRODUCTIONS (FORMERLY TV STUDIO)

Grade Level: 10, 11, 12

Length: Semester

Credit: 0.5 Practical Arts

Prerequisite: *None*

COURSE DESCRIPTION: This course is intended as an introductory course where students will develop graphic design and multimedia skills. Students will learn the basics of camera operation and techniques, writing original and adapted scripts, film criticism, and giving presentations incorporating media. Students will plan, create and film weekly episodes for "MATV". Students may build their own website and build on their technology skills. The objectives of this course are: to teach the essentials of graphic design; to acquaint students with fundamentals of multimedia; develop technical skills including animation, the creation of original graphic images, and the development of computer publications. Programs used will include Adobe Photoshop, Adobe Illustrator and Audacity.

The curriculum is also designed to develop the writing and communication skills students need to effectively and appropriately utilize social media outlets (e.g. - Twitter, Facebook, Google+, Instagram, vimeo, TV Studio, YouTube), as well as, print & digital media outlets (e.g. - newsletters, webpage, blogs) that are appropriate for a high school environment.

~ PRACTICAL ARTS / BUSINESS / PERSONAL FINANCE cont. ~

MARKETING

Grade Level: 10, 11, 12

Prerequisite: *None*

Length: Semester
(Offered on rotating basis)

Credit: 0.5 Practical Arts

COURSE DESCRIPTION: In this course, Students will learn about consumers in the market place, advertising, sales promotion, professional development and more. This course is a must for students who are planning on a career in marketing or business. In this course you will have the opportunity to be involved in DECA (An Association of Marketing Students) and FBLA (Future Business Leaders of America). These organizations provide opportunities for leadership, professional development, and community service. Also included are some fun social events and "academic" activities.

ENTREPRENEURSHIP/ADVANCED MARKETING II

Grade Level: 11, 12

Prerequisite: *None*

Length: Year
(Offered on rotating basis)

Credit: 0.5 Practical Arts

COURSE DESCRIPTION: Using a hands-on approach, the student will organize, develop and implement their own business from start-up to shut-down. They will learn about entrepreneurship and what it takes to succeed in the business community. They will discover the importance of communication and effective management in relation to the success of a business. The student will learn to write an effective business plan, market and sell a product or service, and choose strategies to make a profit. Students will be responsible for planning an all school event, a lemonade sales stand, and other various events throughout the year. Students will also participate in the "Miriam Academy Apprentice" . Students taking advanced marketing will eventually have the opportunity to participate in DECA (Association of Marketing Students) and FBLA (Future Business Leaders of America).

COOPERATIVE CAREER EDUCATION

Grade Level: 11, 12

Prerequisite: *Application required*

Length: Semester/Year

Credit: 0.5/1.0 Practical Arts

COURSE DESCRIPTION: Students study occupations that relate to technical, child development and care, food production and service management, construction, manufacturing industries, health care, and computer related careers. Areas to be studied include: employer-employee relations, human relations, labor organizations, and career development. (Offered as needed)

CHILD DEVELOPMENT

Grade Level: 11, 12

Prerequisite: *None*

Length: Semester

Credit: 0.5 Elective

COURSE DESCRIPTION: Child Development gives students the knowledge of physical human development and the responsibilities of planning for the primary care, parenting of young children. The dynamics of parent-child bonding, guiding development, social, emotional, financial and intellectual experiences and considerations, and lifestyle changes are examined. This course focuses on developmental principles and characteristics of the young child, ages one-five. Students may analyze different types of care and may study child care laws, safety and health issues. Units of study may include: immunizations, principles of guidance and discipline, sequential developmental patterns, speech and language development, play and toys, nutrition, and developmental theories based upon well-known theorists and test developers in the area of child development. Students may develop activities which address the developmental and individual needs of infants, toddlers and preschool age children. Career pathway options for Child Development: (teaching), Child Care; Medicine (Pediatrician), Developer of children toys and games, Children's literature and illustrations, fashion designer for children's clothing.

~ FINE ARTS ~

INTRODUCTION TO 2-D ART

Grade Level: 9,10, 11,12

Length: Semester/Year

Credit: 0.5 Fine Arts

Prerequisite: *None*

COURSE DESCRIPTION: An introductory course in the visual arts based upon projects in 2-dimensional design and composition. Projects using a wide variety of media will provide opportunities for students to become acquainted with the materials, principles, and terminology of art. Students may or may not have special ability in art but a genuine interest and willingness to work are necessary. Students who plan to take advanced work in art should take 2-Dimensional Art in 9th grade or as soon as possible.

CERAMICS

Grade Level: 9, 10, 11,12

Length: Semester

Credit: 0.5 Fine Arts

Prerequisite: *None*

COURSE DESCRIPTION: This class is an introduction to basic principles of 3-dimensional construction. It will focus on basic hand-building techniques in ceramics: pinch, coil and slab. Students may learn how to use a potter's wheel. Students will learn ceramic vocabulary and history. For the advanced students—they will continue to learn techniques in the principles of construction in sculpture.

FINE ARTS SURVEY

Grade Level: 9, 10, 11,12

Length: Semester

Credit: 0.5 Fine Arts

Prerequisite: *None*

COURSE DESCRIPTION: Fine Arts Survey provides an opportunity for students to study numerous aspects of music and beginning art. The areas of study include: basic fundamentals of music notation and reading composers and their music, various facets of the music business and music careers, and basic instruction on guitar or keyboard. Art activities are individualized and group, depending on interests and skill level.

METALSMITHING

Grade Level: 9, 10, 11,12

Length: Semester

Credit: 0.5 Fine Arts

Prerequisite: *None*

COURSE DESCRIPTION: Students will learn how to design with metals, wires and beads in the construction of jewelry-making. Some use of power tools (sanders and drills) may be used in this class.

ADVANCED ART

Grade Level: 10, 11,12

Length: Semester/Year

Credit: 0.5 Fine Arts

Prerequisite: *Intro to Art*

COURSE DESCRIPTION: Concepts of design and composition are explored more deeply than in basic art. Emphasis is given to composition and drawing as a method of personal communication. The student will be expected to be capable of creating visual ideas.

~ FINE ARTS cont. ~

MUSIC ENRICHMENT (offered on rotating basis)

Grade Level: 10, 11, 12

Length: Semester

Credit: N/C

Prerequisite: *None*

COURSE DESCRIPTION: An overview of different types of music, instruments and appreciation of music as a therapeutic choice for mindfulness. (This course is offered as a pull out” 2 days per week in addition to “regular” scheduled course.)

~ PHYSICAL EDUCATION/HEALTH ~

HEALTH

Grade Level: 9

Length: Semester

Credit: N/C

Prerequisite: *None*

COURSE DESCRIPTION: This required course will emphasize decision making skills and life lessons which are necessary in one's personal health behavior. Students will examine health issues and topics, such as, wellness, mental health, stress, relationships, disease prevention, substance abuse and prevention, safety and first aid, nutrition and community and environmental health.

PHYSICAL EDUCATION I

Grade Level: 9

Length: Semester

Credit: 0.5 PE

Prerequisite: *None*

COURSE DESCRIPTION: The main focus of this required course is introducing various game concepts in several sports and individual activities. Units that may be included are flag football, volleyball, lacrosse, fitness, weight training, soccer, floor hockey, swimming, basketball, softball/baseball, team handball, field hockey, badminton, pickle ball, and ultimate Frisbee. Students will be expected to complete written work, skills testing and participate in class activities. Students are required to bring shoes for class.

PHYSICAL EDUCATION II

Grade Level: 10

Length: Semester/Year

Credit: 0.5 PE

Prerequisite: *None*

COURSE DESCRIPTION: The main focus of this required course is a continuation of game concepts in several sports and individual activities. PE II will place emphasis on health-related fitness and activities. Students will have knowledge of rules and strategies, written tests, and skills testing, including team and individual sports. Ongoing assessment includes both written and performance-based skill evaluations. Students are required to bring shoes for class.

PHYSICAL FITNESS

Grade Level: 10, 11, 12

Length: Semester/Year

Credit: 0.5 PE

Prerequisite: *Successful completion of Physical Education 1 and 2 or teacher recommendation*

COURSE DESCRIPTION: This is a co-educational class setting. The main focus of this course is team sports and individual activities. Units that may be included are flag football, volleyball, fitness, soccer, floor hockey, basketball, softball, field hockey, badminton, pickle ball and ultimate Frisbee. Ongoing assessment includes both written and performance-based skill evaluations. Students are required to bring shoes for class.

LIFE SKILLS

Grade Level: 10

Length: Semester

Credit: 0.5 Elective

Prerequisite: *None*

COURSE DESCRIPTION: This course is designed to teach appropriate skills needed for young adults. The first 6 weeks is CPR training with being awarded the CPR card. The second 6 weeks is Drivers' Education (studying of the permit book/ test and watching safe driving videos) and the last 6 weeks is sex education, taught by counselors, special education teachers and PE teacher (curriculum from National Health Organization).

~ ELECTIVES ~

ADULT LIVING

Grade Level: 9, 10, 11, 12

Length: Semester/Year

Credit: 0.5/1.0 Elective

Prerequisite: *None*

COURSE DESCRIPTION: Students will learn how to develop skills in the area of household chores, self-care, financial responsibilities and job skills. Students will have the opportunity to engage in activities that will prepare them for living independently, such as: grocery shopping, laundry, basic meal preparation, home cleaning, organizing personal care needs, making and keeping scheduled appointments, routines revolving job responsibilities, repair small items, pump gas and car care. Other areas covered are financial responsibilities such as: balancing check book/ credit cards/ debit cards, writing checks and using credit cards, along with answering emails, filling out job applications, reading a bus or train schedule and ways to be successful on the job.

LEARNING STRATEGIES

Grade Level: 9

Length: Semester

Credit: 0.5 Elective

Prerequisite: *None*

COURSE DESCRIPTION: This course is designed to help students develop comprehension, reading and language skills. It will teach learning strategies for test taking, organization, study skills and school success. Social skills and self-advocacy will also be addressed.

~ CAREER AND TECHNICAL EDUCATION/Counseling Dept. ~

READING STRATEGIES / INDEPENDENT READING

Grade Level: 9, 10, 11, 12

Length: Year

Credit: 1.0 Elective

Prerequisite: *None*

COURSE DESCRIPTION: Students will learn how to reading independently. They will start by learning to decode words in isolation, in sentences, and in a variety of reading passages. The students will learn to use word attack strategies to help them read words more accurately. As the students are able to decode words, their fluency and accuracy will improve to passed their recreational reading level. Becoming more accurate readers will allow the students to understand and comprehend the material presented in other courses. Literature circles, novel discussions, journal entries and daily recreational reading practice will be used.

INTERPERSONAL COMMUNICATION SKILLS

Grade Level: 11

Length: Semester

Credit: 0.5 Elective

Prerequisite: *None*

(Offered on rotating basis)

COURSE DESCRIPTION: Students learn how to better their communication by means of practicing face to face communication, interview skills, telephone skills, and communicating in public. Focus is on developing social interaction skills in class with many activities involving team building and dialog.

GROUP DYNAMICS

Grade Level: 11, 12

Length: Semester

Credit: 0.5 Elective

Prerequisite: *None*

(Offered on rotating basis)

COURSE DESCRIPTION: Students will learn to interact with each other in a variety of classroom settings. Topics covered will include—making friends, overcoming obstacles, becoming comfortable in a group, and developing social skills. The PEERS Program components may be utilized in this course.

FRESHMEN GROUP (PEERS)

Grade Level: 9

Length: Semester

Credit: 0.5 Elective

Prerequisite: *None*

(Offered as needed)

COURSE DESCRIPTION: Students will begin to interact with each other in a variety of classroom settings. Topics covered will include—making friends, overcoming obstacles, clicks, social media, reading emotions of others, group/partnering and developing social skills and confidence. The PEERS program components may be utilized in this course.

CAREER EXPLORATION

Grade Level: 9

Length: Semester

Credit: 0.5 Elective

Prerequisite: *None*

COURSE DESCRIPTION: Students will learn about different careers and occupations. They will take interest inventories and discover more about their likes and dislikes, as well as aspects about career choices that suit their personality. Students will explore different career pathways and post-secondary planning.

~ CAREER AND TECHNICAL EDUCATION/Counseling Dept. cont. ~

COOPERATIVE WORK EXPERIENCE

Grade Level: 11, 12

Length: Semester/Year

Credit: 1.5-2.0 Elective

Prerequisite: *11th or 12th grade*

COURSE DESCRIPTION: Program goals include the acquisition of general skills related to performing work under supervision, as well as, job-related skills. COOP is a school-sponsored program in collaboration with the Division of Vocational Rehabilitation (DVR) designed for an individual student to gain paid employment as part of the school course of study. Credit may be given over the summer or during the school year, on an individual basis.