

# INTRODUCTION

This booklet is divided into six (6) major sections. The purpose of which is to assist the student and the parents in planning a student's academic studies for the next four years, monitor progress, and prepare for post high school.

Section 1. Credit and requirements for graduation and college entrance

Section 2. Course offerings and credit for each course

Section 3. Course descriptions, credit, and prerequisites  
All vocational Education course descriptions model and program  
sequence on page 17 & 20

Section 4. Recommended courses and year they should be taken  
*(Depending on the needs of the student)*

Section 5. Individual plan for four-year course of study

Section 6. Graduation progress checklist


**Revised March 2007-2008**

## ***CREDITS REQUIRED FOR GRADUATION: 23***

### **CRITERIA FOR STUDENT CLASSIFICATION**

<b>Freshman:</b>	To be classified as a freshman, the student must be in the first year of high school or have earned less than 5-1/2 credits.
<b>Sophomore:</b>	To be classified as a sophomore, the student must have successfully completed at least 5-1/2 credits.
<b>Junior:</b>	To be classified as a junior, the student must have successfully completed at least 11 credits.
<b>Senior:</b>	To be classified as a senior, the student must have successfully completed 17-1/2 credits.

### **DISTRICT GRADUATION REQUIREMENTS**

<u>Subject Area:</u>	<u>Unit of Credit</u>
English	4.0 units
Math	3.0 units
Science*	3.0 units
Social Studies	3.0 units
Vocational 	3.0 units
Humanities	1.0 unit
Typing, 30 wpm minimum	1.0 units
Physical Education, ♦Sports 2 seasons, Weight Training	1.0 unit
Electives	4.0 units*
<b>Total required for graduation</b>	<b>23.0 units</b>

### ***And pass the AIMS***

*\*The combination of "Introduction to Plant Science" and "Applied Biological Science" may be counted as two Vocational credits and a Science check off toward filling the district science requirement.*

♦Two seasons of sports participation will check off P.E.- not given a credit

**\* 6 electives if the typing and P.E. credit are satisfied by sports participation and 7<sup>th</sup> or 8<sup>th</sup> grade keyboarding/computer.**

## **FALL ADMISSION REQUIREMENTS FOR ARIZONA UNIVERSITIES**

**To be eligible for unconditional admission, you must have one of the following:**

- **3.0 GPA in required courses (4.0 scale) or**
- **Top 25 percent class rank or**
- **1040 SAT score or**
- **22 composite ACT score**
- 

**and meet academic competency requirements**

- **4 years of English**
- **4 years of math**
- **3 years of laboratory science (biology, chemistry, physics, earth science,**
- **or integrated science may include advanced study in one area)**
- **2 years of social science (American History and one other)**
- **2 years of a second language (must be the same language)**
- **1 year of fine arts (art, dance, music, drama)**
- 

**You may be admitted conditionally if you have:**

- **2.5 in required courses or**
- **Top 50 percent class rank**
- **and no more than one deficiency in any two required subjects**

## **HIGH SCHOOL COMPETENCY REQUIREMENTS**

### **SUBJECTS WHICH PREPARE A STUDENT FOR COLLEGE**

#### **English**

You'll need at least 4 years of English classes emphasizing writing, wide reading, and analysis of literature. To be successful in life, you need a solid understanding of the language in which you communicate.

#### **Mathematics**

Take at least three years of mathematics. Completion of college preparatory math through Algebra II (Advanced Algebra) is required. Strong mathematics foundations are provided by courses such as Trigonometry.

If you take Algebra I in eighth grade, it will be counted as a check off for one of the three mathematics courses required for Arizona universities. However, if you take Algebra I in eighth grade, you are encouraged to take more than the minimum three mathematics units required. Be sure to plan to take one mathematics course during your senior year so your math skills aren't "rusty" when you begin university classes. Basic math ability is essential for science, engineering, business and technology careers.

#### **Laboratory Science**

Choose one year of study in each of any two of the following lab sciences: Biology, Chemistry or Physics. Lab sciences have at **least** one lab period each week. A third year of laboratory science is encouraged strongly, and is an entrance requirement for the University of Arizona.

#### **Social Studies**

High School graduation requirements for Arizona students include:

- 1 year of American History,
- 1 semester of World History,
- 1 semester of World Geography,
- 1 semester of Federal Government, and
- 1 semester of Arizona Constitution.

#### **Foreign Language**

Study of a foreign language generally improves a student's ability in English. Therefore, it is strongly recommended that students earn two credits in a single foreign language. Learning another language will enhance your understanding of other cultures and people. (Please see the admission requirements for Arizona universities, page 3.)

#### **Fine Arts**

Courses in music, art and drama are recommended because they add to your academic enrichment and enjoyment of life.

### Technology/computer Classes

When entering college professors will expect that you are proficient in the use of technology for research as well as a firm practical working knowledge of computers and essential programs.

## COURSE OFFERINGS AND CREDIT PER YEAR

(NA means not available this year)

<b>Business</b>	<b>Credit</b>
Business Marketing	1
Management Technology - NA	1
Web Page Design - NA	1
Computer Maintenance & Repair	1
Advanced Computer Maintenance. & Repair	1
Marketing & E-Commerce I	1
Marketing & E-Commerce II	1
<b>Foreign Language</b>	<b>Credit</b>
Spanish I	1
Spanish II	1
Elementary Spanish 101	1
Elementary Spanish 102	1
<b>Humanities</b>	<b>Credit</b>
Band, Beg. & Adv.	1
Concert Choir (NA)	1
Informational Technology - NA	1
Commercial Art Advanced - NA	1
Photography	1
Yearbook/Journalism	1
Show Choir	1
Newsletter (NA)	1
Basic Art	1
Musical Theatre	1
Advanced Music	1
<b>English</b>	<b>Credit</b>
English 9	1
English 10	1
English 11	1
English 12	1
<b>Mathematics</b>	<b>Credit</b>
Geometry I	1
Algebra I	1
Algebra II	1
Algebra III	½
Trigonometry	½

Pre-calculus	1
Business Math	½
College Algebra	1

### Physical Education

Physical Education - NA	1
Weight Training	1

### Social Studies

World History	½
World Geography	½
U.S./American History	1
Federal Gov't.	½
AZ History	½
History of the United States since 1607	½
History of the United States since 1877	½

### Science

Earth Science	1
Physical Science	1
Biology	1
Chemistry	1
General Physics I	1
Fundamentals of Physical Science	1
◆Chemistry-Advanced/college	1
■Physics-Advanced/college	1
◆Will be offered every other year. (The even numbered years.)	
■Will be offered every other year. (The odd numbered years.)	

### Vocational Education

❖Introduction to Plant Science	1
❖Applied Biological Systems	1
□Agriscience I	1
□Agriscience II	1
Operation/Maintenance/Repair of Plant Science Equipment - NA	1
Advanced Operation/Maintenance/Repair of Plant Science Equipment - NA	1
Agriscience CAD - NA	1
Intro to Family and Consumer Science Occupations	1
Early Childhood Education Fundamentals	1
Early Childhood Applications	1
Culinary Arts Principles	1
Culinary Arts Applications	1
Nursing Assistance	1
Information Technology Fundamentals - NA	1
Business Management technology - NA	1

Computer Maintenance	1
Marketing Management & Entrepreneurship	1
E-Commerce Marketing	1

❖ Taken together counts as one science check off for graduation purpose and accepted as a university entrance science.

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**\*Electives**

**Credit**

Teacher Aide	1/2
Office Aide	1/2
Current Events	1
STUCCO	1
ELD, English Language Development	1

*\*These and all other courses not required are considered electives.*

Student wishing to take college classes for credit may do so with course approval by principal and within district policy and regulation.

For the use of correspondence courses toward meeting graduating requirements please see the principal.

## ***COURSE DESCRIPTIONS, CREDIT, AND PREREQUISITES***

### **Co-Enrollment Vocational**

#### **Nursing Assistant**

1 Credit                      1 Semester



11<sup>th</sup> & 12<sup>th</sup> grade only

#### **College Algebra -**

1 Credit                      1 Semester

#### **Business Math - NA**

½ Credit                      1 Semester



#### **Computer Repair**

½ Credit                      1 Semester



#### **Culinary Art Applications**

½ Credit                      1 Semester



### **English**

#### **English 9**

1 Credit                      2 Semesters

Prerequisite: *None*

This class focuses on the study of literature and of grammar. We read fiction, poetry, essays, drama, and literary works such as Hemingway's *The Old Man and the Sea* and Shakespeare's *Romeo and Juliet*. We also explore literary and persuasive devices used in writing.

#### **English 10**

1 Credit                      2 Semesters

Prerequisite: *English 9*

This is an integrated course of literature, grammar, and writing skills. Students will write a variety of essays, a research report, poetry, and a short narrative, Emphasis will be placed on the development of writing skills.

#### **English 11**

1 Credit                      2 Semesters

Prerequisite: *English 10*



American Literature will be studied in depth. A variety of essays will be written along with two research papers. Vocabulary will be stressed along with using a variety of sentence structures in their writing.

## **English 12**

1 Credit                      2 Semesters                      Prerequisite: *English 11*

British Literature will be studied in depth. Writing skills for the college bound and the post high school graduate will be stressed. Resumes will be updated along with letters of application. Different writing styles will be studied and compared. Students will be encouraged to be active with their interpretations of the reading materials presented.

## **Foreign Language**

### **Spanish I**

1 Credit                      2 Semesters                      Prerequisite: *None*

Students will learn the verb forms of present tense, preterit tense, and future tense. Students will memorize and repeat vocabulary lectures and commands to learn vocal sounds to build a vocabulary.

### **Spanish II**

1 Credit                      2 Semesters                      Prerequisite: *Spanish I*

Students will learn the verb forms of: imperfect, preterit, present progressive, imperfect progressive, present perfect, pluperfect, subjunctive, conditional, future, imperfect subjunctive, perfect conditional, present perfect of the subjunctive.

### **Elementary Spanish 101**

1 Credit                      2 Semesters                      Prerequisite: *None*

Comprehension of the spoken language, understandable pronunciation, recognition of basic grammar structures, ability to converse, read and write in simple sentences on topics related to personal and classroom experiences.

### **Elementary Spanish 102**

1 Credit                      2 Semesters                      Prerequisite: *Spanish 101 or 2 years of high school Spanish.*

Comprehension of the spoken language, understandable pronunciation, recognition of basic grammar structures, ability to converse read and write simple sentences on topics related to personal and classroom experiences.

## Humanities/Music

### **Show Choir (“Tiger Sensations”)**

1 Credit                      2 Semesters                      Prerequisite: *Audition*

The show choir is a performance directed ensemble. Students are actively involved in entertaining through song. In addition to singing in group numbers, choir members will have opportunities to participate in: vocal solos, duets, and quartets, public speaking, choreography, public relations, advertising, make-up application, and in all aspects of staging a show.

School and community performances will be scheduled upon demand.

### **Musical Theatre**

1 Credit                      2 Semesters                      Prerequisite: *None*

Musical Theatre, the first semester of this class focuses on the skills involved, in the three parts of musical theatre: singing, dancing, and acting. The second semester focuses on the production and performances of a musical.

### **Anthem**

1 Credit                      2 Semesters                      Prerequisite: *Audition*

## Humanities/ Fine Arts

### **Informational Technology Fundamentals I – NA**



1 Credit                      2 Semesters                      Prerequisite: *None*

Students will be introduced to the basic elements of art in order to form a basic foundation for the career and non-career oriented. Basics will include: Composition; balance; color; two and three-dimensional design.

### **Informational Technology Fundamentals 2 – NA**



1 Credit                      2 Semesters                      Prerequisite: *Informational Technology I with a B- grade average or approval of instructor*

Students will learn advanced techniques in the various art fields such as: drawing, calligraphy, watercolor, printmaking, ceramics, two and three dimensional design, acrylic painting, architectural design and commercial art. A portfolio of twelve best projects will be required for course credit.

### **Photography/Journalism/Newsletter**

1 Credit                      2 Semesters                      Prerequisite: *None*

Provides training and experience in news gathering, news and headline writing, editing, and journalism ethics, photo journalism, and film developing.

### **Commercial Art Fundamentals - NA**

1 Credit                      2 Semesters                      Prerequisite: *Informational Technology I*

This course emphasizes the application of social and technical skills, and knowledge needed to perform tasks common to the field of commercial art. Students who become competent in these skills can not only gain employment, but successfully perform and advance in commercial art jobs. With this in mind, the course places heavy emphasis in those skills which will enable the student to not only gain entrance to, but to successfully perform in his chosen vocation. At the same time it provides the student who wishes to continue his art education, with substantial foundation upon which to build his skills and knowledge.

### **Commercial Art Advanced - NA**

1 Credit                      2 Semesters                      Prerequisite: *Commercial Art Fundamentals*

Commercial Art 2 will complete the last one third of the required competencies with a strong emphasis on advanced techniques.

## **Mathematics**

### **Algebra 1**

1 Credit                      2 Semesters                      Prerequisite: *None*

This course covers the terms used in algebra, simplification of rational expressions, operations with real numbers, operation with polynomials, factoring, equations, inequalities, word problems, open sentences in two variables, irrational numbers, and the quadratic formula.

### **Geometry**

1 Credit                      2 Semesters                      Prerequisite: *Algebra I*

This course covers the study of definitions, theorems, axioms, postulates, triangles (congruent and similar). Polygons, circles, quadrilaterals, parallel lines, proofs, right triangles (congruent and similar) and formulas (perimeters, areas, volumes).

### **Algebra II**

1 Credit      2 Semesters                      Prerequisite: *Algebra I*

This course covers a review of Algebra 1, the use of proofs in algebra, inequalities, systems in two and three variables, graphing on the coordinate system, operations of polynomials, solving equations (linear and quadratic) and word problems.

### **Algebra III**

½ Credit                      1<sup>st</sup> Semester only                      Prerequisite: *Algebra 2*

A continuation of Algebra 2, this course covers algebraic fractions, quadratics (including the quadratic formula) radicals and imaginary numbers.

### **Trigonometry**

½ Credit                      2<sup>nd</sup> Semester only                      Prerequisite: *Algebra 3*

Following Algebra 3, this course will cover the study of logarithms and trigonometry (using tables and calculator) and trigonometric proofs of functions of single, double, and half-angles.

### **Analytical Geometry - NA**

1 Credit      2 Semesters

Prerequisite: *Algebra 3*

This course will cover the study of functions, rectangular coordinates and straight lines, conic curves, curve tracing, polar coordinates, locus, and an introduction to calculus (derivatives and integrals).

### **Pre-calculus**

1 Credit                      2 Semesters

Prerequisite: *Trigonometry Grade: 11 & 12*

In this 5th year math course of a sequential math plan, the student will study functions, the straight line, conic curves, polar coordinates, the derivative and integral. Incorporated throughout different topics will be an integration of geometry with algebra. Grading will be based on homework, notes, and tests.

### **Pre-calculus (College)**

1 Credit                      2 Semesters

Prerequisite: *Indicated placement test score or completion of MATH 122*

*Topics from college-level algebra and trigonometry essential to the study of calculus and analytic geometry. Includes algebraic, exponential, logarithmic, trigonometric, and inverse trigonometric functions, complex Numbers, linear and nonlinear systems of equations and inequalities, and sequences and series.*

### **College Algebra**

1 Credit                      1 Semester

Prerequisite:

### **Business Math**

½ Credit                      2 Semester only

Prerequisite: *None*

This course examines the fundamental of business mathematics and the use of the number language to Communicate in the business world. Basic mathematics background is suggested prior to enrolling.

## **Physical Education**

NOTE: IF A STUDENT PARTICIPATES IN TWO SPORTS DURING THEIR HIGH SCHOOL YEARS, P.E. CREDIT IS SATISFIED.

### **Physical Education**                      (Will not be available this year, P.E. credit can be earned by taking weight lifting)

1 Credit      2 Semesters

Prerequisite: *None*

Students will learn the rules and skills of different activities to improve the physical conditioning of each student and to promote lifetime sports activities.

Since the physical abilities of each student vary, physical education is primarily a participation class. Therefore, each student must dress appropriately for each activity; i.e. gym shorts, shirts, and shoes. Sweatshirts and pants are acceptable, particularly during the colder months of the year.

### **Weight Training** (Will satisfy P.E credit)

1 Credit                      2 Semesters

Prerequisite: *None*

Weight training is a P. E. class in the physical education department at St. David High School. It is a course designed to be taken as an experience in high school physical education. In the weight training class, students will fully understand the proper use of all the weight training equipment in the weight room and be able to understand the muscle groups in the human body that will help them emphasize their workouts and their exercise techniques. Through proper health and exercise habits students will be able to develop a high sense of self-esteem because of their ability to accomplish their personal goals. Students will also develop stress management skills and understand how a healthy diet and exercise play a major role in stress reduction. The students in weight training will also develop recreational skills in team and individual sports, which allow them to participate and appreciate sports as a lifetime activity.

## **Resource Programs**

### **Special Education Courses**

For more information please see Special Education Teacher and/or Administration.

## **Science**

### **Earth Science**

1 Credit                      2 Semesters                      Prerequisite: *None*

An examination of the major forces affecting the earth, including weather, climate, soil & rock formation, water cycle, and plate tectonics. An overview of the solar system will also be covered.

### **Physical Science**

1 credit                      2 semesters                      Prerequisite: *None*

An introduction to the basic physical and chemical phenomena that control and govern the world in which we live and their applications in technology. Areas that will be covered include such topics as molecular structure and chemical reactions, forces, electricity, magnetism, gravity, waves, and light.

Relative difficulty of science courses -- easiest to most difficult:

1. Earth Science and Physical Science
2. Biology
3. Chemistry
4. Advanced Physics
5. Advanced Chemistry

### **Biology 1**

1 Credit                      2 Semesters                      Prerequisite: *None*

An introduction to fundamental concepts and principles of biology, including the scientific method, cell structure and function, and ecology; major taxonomic groups of plants and animals will be examined.

## Chemistry

1 Credit

2 Semesters

Prerequisite: *Algebra I (algebra pre-test must be passed to qualify student for continuation in the course.*

An introduction to the principles of chemistry, including nomenclature; solving chemical equations; atomic and molecular structure; periodic table; the nature of solids, liquids and gases; energetic; and reactions of common chemicals. Substantial application of basic algebra is required during the course.

## Chemistry - Advanced

1 Credit

2 Semesters

Prerequisite: *Algebra II. The student must have complete The regular high school chemistry course with a minimum grade of a B for both semesters.*

A.P. Chemistry is designed to be the equivalent to the general chemistry course normally taken during the first year of college.

***Currently students can enroll in this class for dual credit. Students wishing college credit must pay required college fees, and successful, complete college placement test. This is a dual credit class and credit given by both the high school and Cochise College***

## Physics-Advanced

1 Credit

2 Semesters

Prerequisite: *Algebra I & 2, Geometry (or concurrent enrollment in Geometry) a "B" in cumulative GPA*

*and*

An introduction to principles of physics, including properties of motion, energy, light, optics, electricity, and electromagnetism. Concepts of modern atomic physics is also covered.

This course is patterned after the beginning algebra-based physics course at the university level. A student completing this course can take an A.P. exam during May. Successful completion of the A.P. exam may qualify a student for several semester hours of university credit. The amount of credit available varies with the college or university selected.

***Currently students can enroll in this class for dual credit. Students wishing college credit must pay required college fees. This is a dual credit class and credit given by both the high school and Cochise College***

## General Physics I (College)

1 Credit

2 Semester

Prerequisite: *MAT 122,*

Introduction to the general principles of physics in the area of classical mechanics. Special emphasis is placed on algebra in solving word problems.

## Advanced Chemistry/Advanced. Physics

These courses are primarily designed for the serious, highly motivated student who is willing to put in the extra effort and time required by this type of program. The benefits include the potential for receiving college credit in these subjects upon successful completion of a standard test at the end of the school year or if it is being offered as a dual credit class.

Students desiring to participate in one or more of these courses should plan ahead to insure that prerequisites are met. Advanced Chemistry requires the successful completion of the regular chemistry course before enrolling in the advanced placement course.

Students graduating in odd-numbered years must take chemistry in their sophomore year in order to take A.P. Chemistry as a junior when this course is available. A.P. Physics would then be available to these students as seniors. Students graduating in even-numbered years have the option of taking regular chemistry as a sophomore (preferable) or as a junior in order to satisfy the prerequisite for A.P. Chemistry. A.P. Physics would be available to these students in their junior year. Taking regular chemistry as a sophomore would avoid having to take both chemistry and Advanced Physics in the same year.

A special note to students contemplating taking Advanced Chemistry and their parents:

Advanced Chemistry is much more intensive than the normal junior-senior level high school class. During the first semester we cover again everything that was covered in the high school chemistry but in greater depth, as well as a couple of additional major concepts. The second semester is all new material of a challenging nature.

Mastering this material involves extensive problem solving in the form of homework. An average of 30-60 minutes per day will be required by most students to keep abreast of the course work. In addition, extensive lab work is required to meet the requirements for making this course comparable to the experience the student would receive in college.

Because of the time requirement for material presentation (lecture), lab work and problem solving sessions, it will be necessary to begin class at 7:00 a.m. Students taking AP Chemistry will not be able to participate in early morning music or other programs on those days.

If you have questions about the program, contact Dr. Kartchner at the school 720-4781 or at home (720-4177).

## **Social Studies**

### **World History**

½ Credit

1 Semester

Prerequisite: *None*

This World History course begins with the study of the Early Greek Civilization and the early Roman civilization. The course then moves to the Modern Era of World History beginning with the Renaissance, the Reformation, the Age of Exploration, and the Rise of Absolutism. It continues with the study of the French Revolution and Napoleon and includes the Unification of Italy and Germany, Imperialism, and Rise of Capitalism. The Depression, World War II and the creation of the United Nations and the development of the Third World Nations.

### **World Geography**

½ Credit

1 Semester

Prerequisite: *None*

Students will study physical and cultural geography. They will study the nations of the world. Students will understand maps, topography, economics, and current events. They will develop an understanding of the world and its people.

### **U.S. /American History**

1 Credit

2 Semesters

Prerequisite: *Federal Government (preferred)*

The American History class starts with the American Revolution and the creation of our American Constitution. The course emphasizes the period after the Civil War. Beginning with the Gilded Age

continuing up to the present time in American History. The course highlights the political, social, and economic development that takes place in America up to the 21<sup>st</sup> Century. The goal is to give the student an appreciation of their heritage so they may use that knowledge in their future.

### **Federal Government**

½ Credit                      1 Semester  
*Geography(preferred)*

Prerequisite: *World History and World*

The Federal Government course is to introduce to the students how the government of the United States functions. This course will also give the students knowledge of the historical foundations of our government as well as the Constitutional basis upon which our government was created.

### **Arizona History**

½ Credit                      1 Semester

Prerequisite: *World History and World Geography (preferred)*

Arizona History and Government begin with the study of the geography and early Indians of the region. This includes the coming of the Spanish, our Mexican Heritage, the pioneer influence, as well as the creation of Arizona as a Territory and the development of Arizona as a state. Included will be a look at a study of what Arizona's future could be as well.

### **History of the United States 1607-1877**

½ Credit                      1 Semester  
collaborative

Prerequisite: Concurrent enrollment n

RDG 11 or completion of RDG 122 or exemption.

A study of the development of American characteristics and nationality from colonial beginnings through the period of Reconstruction, emphasizing the factors and forces which produced the Revolution, the Constitution, westward expansion, sectionalism, and the civil War.

### **History of the United States since 1877**

½ Credit                      1 Semester  
collaborative

Prerequisite: Concurrent enrollment n

RDG 11 or completion of RDG 122 or exemption.

### **Current Events (NA)**

1 Credit                      2 Semesters

Prerequisite: *None*

To make students aware of local, county, state, national and international events that impact on their lives will also offer students with a social studies elective course. The students will use various resources, especially papers, magazines TV news. The class will include oral and written assignments, debates; discussion of events will lead to a better understanding of current affairs at all levels. They will improve their reading, writing, speaking, and listening skills. The students will improve their abilities in vocabulary and essay letters. Students will write letters to elected officials and become involved in events that they have studied and have developed an interest in. Students will have the opportunity to debate issues at all levels and relate their opinions in regard to current events. First with local issues, county issues, State, Federal, and International issues.

The class will be structured in repetitive phases.

- Phase 1 is information gathering and research
- Phase 2 is information sharing and oral reports
- Phase 3 is debates and discussion



Phase 4 is projects and implementation of resolutions, such as, summary of students, editorials, letters to elected officials, or some kind of informational assembly so as to inform the rest of the student body.

## Electives

### **Teacher Aide**

¼ Credit                      1 Semester                      Prerequisite: *None*

Students will assist the teacher with various tasks.

### **STUCCO**

½ credit                      1 Semester                      Prerequisite: *None*

### **ELD, English Language Development**

½ credit                      1 Semester                      Prerequisite: *None*

## Vocational Course Descriptions

### Program: Agriculture Business Management – Agri-Science

#### Program Description:

The **Agricultural Business Management-Agriscience** program is designed to prepare students for employment in various production, sales, and supplier positions related to the agriculture industry. Students completing this program will possess the technical knowledge and skills associated with agricultural science, production and health, marketing, and sales positions. In addition to the required technical skills, students will also develop leadership, advanced employability, critical thinking, applied academic and live management skills. The program utilizes a delivery system made up of three essential components: formal instruction, experiential education leadership and personal development through the career and technical student organization, FFA.

Note: Courses should be taken in sequence listed

### **Introduction to Plant Science (Level II) 9-10 Grades**

1 Credit                      2 Semesters                      Prerequisite: *None*



This course is geared towards freshmen and designed to introduce students with basic agriculture competencies essential for advancement and placement in specialized programs in the junior and senior years. This class provides instruction in the following areas: Supervised Occupational Experience Programs, FFA, personal development and leadership skills, Farm-Firm record keeping using the computer, beginning agriculture business and management skills, careers in agriculture, insects, weeds, home gardening, construction and maintenance skills, and biotechnology with emphasis on tissue culturing.

### **Applied Biological Systems (Level II) 9-10 Grades**

1 Credit                      2 Semesters                      Prerequisite: *None*



This course is geared towards sophomores and is designed to continue instruction in the basic agriculture competencies essential for advancement into specialized programs at the junior and senior years. Emphasis will be placed on introduction of beginning agricultural business and management skills and competencies. Areas of instruction include: livestock health, feeding, and production management, plant production

management, soils, personal and leadership skills (parliamentary procedure & public speaking), construction and maintenance skills (arc and acetylene welding, cold metal, plumbing and basic surveying).

### **Agri-Science I (Level III) 11-12 Grades**



1 Credit                      2 Semesters                      Prerequisite: *None*

This course is geared toward juniors; will have major emphasis on agricultural mechanic skills and competencies, but will include a large block of time on agriculture business and management. Agriculture mechanic skills and competencies will include: shop safety, arc and oxyacetylene welding, rafter cutting, power tool construction, soldering, glazing, home electrical wiring, forging and surveying.

### **Agri-Science II (Level III) 11-12 Grades**



1 Credit                      2 Semesters                      Prerequisite: *\*Agri-Science*  
Recommended, but not required

This course is geared towards seniors; gives emphases to advanced agriculture mechanic skills and competencies.  
Project construction is given high priority. Advanced agriculture business and management skills, such including the study of futures, economic and marketing principles. Agriculture mechanic skills and competencies include: advanced and all position arc and oxyacetylene welding (hard surfacing, aluminum, cast iron, pipe and plate), concrete and masonry, advanced electrical wiring, electric motor service and repair and advance surveying.

### **Operation/Maintenance/Repair of Plant Science Equipment (Level III) 11-12 Grades (NA)**



1 Credit                      2 Semesters                      Prerequisite: *None*

This course is geared to Juniors and Seniors and will cover the operation, servicing, adjusting, care and repair Of small air cooled engines of various types and models up to 18 horsepower. The first 10-12 weeks are spent on actually learning “hands on” procedures for operating, maintaining and repairing air coiled engines. Students  
Should be able to gain entry level skills needed to work in any small engine service center. (*Class is limited to 10-12 students.*)

### **Advanced Operation/Maintenance/Repair of Plant Science Equipment (Level III) 12 Grade (NA)**



1 Credit                      1 or 2 Semesters                      Prerequisite: *SGE 1*

This course is designed to refine the individual skills of students so they will have all the skills and competencies needed to work in a small gas engine service center. The student’s entire time will be spent repairing, servicing and maintaining small engine equipment.

## **PROGRAM: EARLY CHILDHOOD PROFESSIONS**

### **Program Description:**

**The Early Childhood Professions program is designed to prepare students for employment in residential, Institutional and early childhood settings. The program includes instruction in child growth and development, child health, nutrition safety, planning and supervision of developmentally appropriate play and learning activities, child guidance, family relationships, applicable legal and administrative requirements, and is designed to articulate with community college of CDA certification. In addition to technical skills, students completing this program will also develop advanced critical thinking, applied academic, career development, live management, business, economic, and leadership skills required for entry into early childhood professions occupations. The career and technical student organization is FCCLA.**

### **Intro to Family and Consumer Science Occupations (LEVEL II) 9-10 Grades**

1 Credit

2 Semesters

Prerequisite: *None*

Is an instructional experience that provides students with an orientation to, and an understanding of occupations that directly address the welfare of human beings. The class will cover the following topics: Self acceptance and respect for others, Interpersonal and communications skills, Growth and development of humans, Strategies for life and career success, Teamwork and leadership skills, resource management, foods and nutrition, and some sewing and clothing skills.

### **Early Childhood Professions Fundamentals (Level III) 11-12 Grades**

1 Credit

2 Semesters

Prerequisite: *None*

This course prepares occupational students to understand the physical, mental, emotional and social growth and development of children. Two-thirds of the classroom time is spent interacting with children.

### **Early Childhood Professions Applications (Level III) 11-12 Grades**

1 Credit

2 Semesters

Prerequisite: *None*

This course prepares students for occupations in childcare and guidance in the public and private sector. It includes opportunities to complete the CDA modules.

## **PROGRAM: FOOD PRODUCTION/CULINARY ARTS**

### **Program Description:**

**The Food Production/Culinary Arts program is designed to prepare students to apply technical knowledge and**

**Skills required for food production and service occupations in institutional and commercial food establishments. Students completing this program will possess the technical knowledge and skills required for planning, selecting, storing, purchasing, preparing and serving quality food products. Nutritive values, safety/sanitation Precautions, use of commercial equipment, serving techniques, special diets and management of food establishments will also be studied. In addition to technical**

**skills, students completing this program will also develop advanced critical thinking, applied academic, career development life management, business, economic and leadership skills required for entry into food production/culinary arts occupations. The career and Technical student organization is FCCLA.**

### **Culinary Arts Principles (Level III) Grades 11-12**



1 Credit                      2 Semesters                      Prerequisite: *None*

This course prepares students to serve under supervision of food service professionals as kitchen support staff and commercial food preparation workers. It includes instruction in kitchen equipment, organization and operation and cooking skills. It provides an opportunity to begin the two-year ProStart skills certification.

### **Culinary Arts Applications (Level III) Grades 11-12**



1 Credit                      2 Semesters                      Prerequisite: *None*

This course prepares students with advanced applications in kitchen equipment, organization and operations, sanitation and quality control, quantity food preparation and cooking skills. It provides an opportunity to complete a ProStart skills certificate.

## **PROGRAM: NURSING SERVICES**

### **Program Description:**

**The Nursing services program is designed to prepare students for employment as nursing assistants and home health aids or acceptance into an articulated nursing program at the post secondary level. It provides exposure to patient care for student's interest in other health careers. Students who complete this program will be prepared to take the state board of nursing test and become a nursing assistance. Students can take the C.N.A. State test and receive their (C.N.A.) Certified Nursing Assistant certificate. This course is taught by a certified Cochise College instructor/Registered Nurse.**

*Currently students can enroll in this class for dual credit. Students wishing college credit must pay required college fees, and successful, complete college placement test.*

*This is a dual credit class and credit given by both the high school and Cochise College.*

### **Nursing Services Application (Level III) Grades 11-12**



1 Credit                      1 Semester\*                      Prerequisite: *None*

This course prepares students to perform routine nursing-related services to clients in hospitals or long-term care facilities under the training and supervision of a registered nurse. This course will also prepare students for advanced technical skills and knowledge using a variety of nursing assisting techniques and equipment. \*This course requires students to spend week-ends and extra out of class time for labs and clinical at local hospital or long-term health facilities.

## **PROGRAM GRAPHIC COMMUNICATIONS**

### **Program Description:**

The Visual Communications program is designed to prepare students for employment in various graphic designs, advertising, typesetting, illustration, layout and various imaging occupations. It includes instruction in developing layout, design, production art and business skills in such areas as design and illustration, art tools and media, lettering and typography, graphic design, computer generated imaging, communication, marketing, and safety as well as technical knowledge and skills associated with electronic imaging systems, photographic composition, photographic equipment use/maintenance, and photographic processing.

### **Information Technology I (Level II) Grades 9-10 - NA**



1 Credit                      2 Semesters                      Prerequisite: *None*

Students will be introduced to basic elements of art in order to form a basic foundation for the career and non-career oriented. Basics will include: composition; balance; color; two and three-dimensional design.

### **Information Technology II (Level II) Grades 9-10 – NA**



1 Credit                      2 Semesters                      Prerequisite: *Information Technology I*

Students will learn advanced techniques in the various art fields such as: drawing, calligraphy, watercolor, printmaking, ceramics, two and three dimensional design, acrylic painting, architectural design and commercial art. A portfolio of twelve best projects will be required for course credit.

### **Commercial Art Advanced Applications (Level III) Grades 11-12 – NA**



1 Credit                      2 Semesters                      Prerequisite: *Fund of Vis Comm*

This course will complete the last one third of the required visual arts competencies with strong emphasis on advance techniques. Computer Animation with an instructional and product will be the for this advance program.

## **PROGRAM BUSINESS INFORMATION TECHNOLOGY SERVICES (BITS):**

### **Program Description:**

The Business information technology services program is designed to prepare students for employment related to the Informational Technology Industry. Instruction provides an integrated approach to teaching skills in information technology. The emphasis at our school is computer maintenance. An integrated approach to teaching and learning is recommended as students develop interpersonal relations, career development skills and technical knowledge and skills associated with functions essential for employment in business information technology service occupations. The program uses a delivery system made up of formal/technical instruction, experiential learning and supervised occupational experiences.

## **Business Management Technology (Level II) Grades 9-10 – NA**



1 Credit                      2 Semesters                      Prerequisite: *None*

Student completing this course will use Micro-soft Professional to master Access, Excel, Power Point, Word and Publisher. They will also be introduced to HTMO (web page design).

## **Computer Maintenance (Level III) Grades 11-12**



1 Credit                      2 Semesters                      Prerequisite: *None*

This course prepares students to apply basic electronic theory and principles in diagnosing, repairing and installing software systems for personal computers. Students will be prepared to take the A+ certification and given a chance to take the state certification test for A+ is they desire.

### **OTHER BUSINESS CLASSES:**

## **Financial Services (Level III) Grades 11-12 – NA**



1 Credit                      2 Semesters                      Prerequisite: BMT/Life Connections

The out comes of this course are integrated into learning experiences allowing students to demonstrate the full range of financial services competencies through projects and simulations. The course prepares students to develop an understanding of economic systems and skills to perform business related financial or banking services.

## **Marketing, Management & Entrepreneurship: (Level III) Grades 11-12**



1 Credit                      2 Semesters                      Prerequisite: BMT/Life Connections

This course is designed to prepare students for employment in varies sales, customer service, advertising and promotion and first line supervisory positions in wholesale, retail and service areas. It prepares students to perform marketing and management functions and tasks that can be applied to selling goods and services over the Internet.

## **Web Page Design, Operation and Maintenance: (Level III) Grades 10-12 – NA**



1 Credit                      2 Semesters                      Prerequisite: BMT

This class will use the FRONT PAGE Software package to design, operate and maintain a web page as well as designing, operating, managing the school web page.

## ***Recommended Course Sequence***

The following four general examples of proposed “four-year Course of Study” is to be used by the individual student, depending on their needs and their high school entry level, as far as English, math, science, and social studies are covered.

### **Regular Schedule**

This first sample provides a general course background for those students who are not sure if they will go on to college or enter the job market after graduation.

### ***Entry Level: Minimal Requirements Plan***

<u><i>Freshman:</i></u>	English 9 Algebra I Earth Science World History/World Geography Electives	<u><i>Junior:</i></u>	English 11 Geometry or Algebra II Biology I U.S. History Electives
<u><i>Sophomore:</i></u>	English 10 Physical Science Fed. Gov't./ AZ History Applied Math I Electives	<u><i>Senior:</i></u>	English 12 Electives

### **Vocational School/Junior College**

The next two examples provide a more special background for those students who may want to go to a Trade/Vocational school or may want to go to a community college and later on transfer to a university.

These two examples will also prepare a student to go directly to a university.

## Entry Level: Algebra 1 in 8th Grade

<u>Freshman:</u>	English 9 Earth Science World History/World Geography Algebra 2 Electives	<u>Junior:</u>	English 11 Algebra 3/Trig Biology U.S. History Electives
<u>Sophomore:</u>	English 10 Geometry Fed Gov't./ AZ History Physical Science Electives	<u>Senior:</u>	English 12 Pre-Calculus Electives

## UNIVERSITY SCHEDULE:

A definite course background for a student who wants to go directly to a university

## Entry Level: Algebra I

<u>Freshman:</u>	English 9 Algebra 2 Biology 1 World History/ World Geography Spanish I Electives	<u>Junior:</u>	English 11 Alg 3/Trigonometry A.P. Chemistry U.S. History Electives
<u>Sophomore:</u>	English 10 Geometry Federal Gov't./ AZ History Spanish II Chemistry Electives	<u>Senior:</u>	English 12 or English 101-102 Pre-Calculus AP Physics Electives



## *Proposed*

### *Four Year Course of Study*

Name: \_\_\_\_\_ Date: \_\_\_\_\_

List the subjects you need to meet graduation requirements and other electives you wish to take, that meet your individual goals.

#### **Freshman:**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_

#### **Junior:**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_

#### **Sophomore:**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

#### **Senior:**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

- |          |          |
|----------|----------|
| 4. _____ | 4. _____ |
| 5. _____ | 5. _____ |
| 6. _____ | 6. _____ |
| 7. _____ | 7. _____ |
| 8. _____ | 8. _____ |

### GRADUATION CHECK LIST

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Dear Parent/Guardian/Student:

It is the intent of the Administration of St. David High School to help you keep informed of your son/daughter's academic process as graduation approaches. The parents and students should complete this checklist at the end of each semester.

*(Fill in the box when completed.)*

<b>SUBJECT</b>	<b>Required</b>	<b>Ninth</b>	<b>Tenth</b>	<b>Eleventh</b>	<b>Twelfth</b>
English 9	1 Unit	<input type="checkbox"/>			
English 10	1 Unit		<input type="checkbox"/>		
English 11	1 Unit			<input type="checkbox"/>	
English 12	1 Unit				<input type="checkbox"/>
Math	3 Units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Science	3 Units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
U.S. History	1 Unit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Federal Government	½ Unit <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Arizona Government	½ Unit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
World History	½ Unit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
World Geography	½ Unit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vocational	3 Units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

