



**MANDARIN  
HIGH SCHOOL  
2010-2011  
CURRICULUM  
GUIDE**

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## **INTRODUCTION**

The high school experience is a very special time in the lives of both students and parents. Along with mastering standards in key academic areas, students prepare for life experiences following graduation.

Because of the complexity of the educational process in high school, the faculty at Mandarin High School would like to suggest that parents and students take some time and consider not just the next school year but all remaining school years in order to gain better insight into what courses can be taken and the sequence necessary to complete the courses. Students and parents will be better able to decide between options should scheduling conflicts occur.

The State of Florida and Duval County School Board have both established minimum requirements for graduation. By using the curriculum guide and stated graduation requirements, students can design a tentative schedule for all four years.

It is very important that you keep several items in mind as you work through this project:

- The course curriculum guide is subject to change annually as courses are added and deleted
- Duval County guidelines suggest that students be placed in the most rigorous coursework possible based upon student data.
- You should watch for prerequisites when penciling in course requests
- The numbers of students requesting a course determines whether the course will be scheduled and the number of sections of that course that will be created each year. You may wish to take a specific course, but if there is insufficient demand for the course, it will not be offered.
- There is no guarantee that all of your selections can be accommodated. It is possible that scheduling conflicts may arise because of the many variables associated with the design of the master schedule for this school.
- There are certain courses that must be taken in specific years. For example, the half-credit Economics course is required in the senior year. Please allow for these required courses as you build your four-year plan.
- We pledge to make every effort to enable you to take all of the courses that you wish to take. However, there is no guarantee that you will be able to schedule these courses in a specific year. (You may have to wait until the next year.)
- Each student will have the opportunity to discuss this plan annually with a guidance counselor as a schedule for the next school year is prepared. We recommend that you keep your four-year plan updated and that you refer to it as you progress through school. The final selection of courses will be made in conjunction with the student's guidance counselor with reference to test scores, grades, and teacher input.

**SUGGESTED PROGRESSION**

	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>Language Arts</b>				
Standard	English I or	English II or	English III or	English IV or
Honors	H. English I	H. English II	AP English Lang/Comp	AP English Lit/Comp
<b>Math</b>				
Standard	Algebra I or	Geometry or	Algebra II or	Trig/Anal Geo or Prob/Stats or Advanced Topics
Honors	H. Geometry	H. Algebra II	Pre-Calc or Trig/Anal Geo	AP Calculus AB/BC
<b>Science</b>				
Standard	Earth Space or	Biology	Chemistry	Physics or Anat/Physio or Marine Bio or AP Environ Sci AP Bio or AP Chem or AP Physics or Zoology or Bio II
Honors	H. Biology	H. Chemistry/H. Earth Science or Chemistry/AP Environ Science	H. Physics or H. Physics/AP Environ Sci	One or more of the AP courses above
<b>Social Studies</b>				
Standard	[None]	World Hist	Am. Hist	Govt/Economics
Honors	AP Human Geo	AP World Hist	AP Am. Hist	AP Govt/AP Economics
<b>World Languages</b>	Spanish I-IV or French I-IV or Latin I-IV or Chinese I-IV	Spanish I-IV or French I-IV or Latin I-IV or Chinese I-IV	Spanish I-IV or French I-IV or Latin I-IV or Chinese I-IV	AP Spanish or AP French or AP Latin or AP Chinese
<b>PE</b>	Elective		HOPE	
<b>Major</b>	Major class 1	Major class 2	Major class 3	Major class 4

## Duval County Public Schools Sequence-Mathematics

Course	Prerequisite(s)
AP Calculus	Pre-Calculus <u>OR</u> both Trigonometry and Analytic Geometry
Pre-Calculus	Algebra II
Trigonometry	Algebra II
Analytic Geometry	Trigonometry
Algebra II	Geometry
Geometry	Algebra I
AP Statistics	Algebra II
Prob and Stat with Applications	Algebra II
Liberal Arts Mathematics	Algebra I
Dual Enrollment College Algebra	Algebra II
Dual Enrollment Liberal Arts	Algebra II
Advanced Topics in Mathematics	Algebra II
Analysis of Functions	Algebra II

## Duval County Public Schools Sequence-Science

Grade	Science Courses			
Grade 9	Earth/Space Science*	2001310	Biology I Honors	2000320
Grade 10	Biology I	2000310	Chemistry I Honors <b>AND</b> Earth/Space Science Honors*	2003350 2001320
Grade 11	Chemistry I <b>OR</b> Physics I	2003340 2003380	Physics I Honors <b>AND</b> Earth/Space Science Honors* <b>OR</b> AP Environmental Science** if earth science is not taken in Grade 10	2003390 2001320 2001380
Grade 12	Chemistry I <b>OR</b> Physics I <b>OR</b> AP Science if prerequisites are met**	2003340 2003380	AP Science** <b>OR</b> Electives***	

\* The earth and space sciences are 25% of the Science FCAT, which is administered in Grade 11. All students should learn earth science content. Advanced students could take Earth/Space Science Honors in either Grade 10 concurrently with Chemistry I Honors or in Grade 11 concurrently with Physics I Honors. In Grade 11 **only**, AP Environmental Science may be substituted for Earth/Space Science Honors to meet some but not all earth science content requirements for the Science FCAT.

\*\* For enrollment in Advanced Placement science courses, students must have earned credit in prerequisite courses as follows:

Biology I and Chemistry I for AP Biology (2000340)

Chemistry I (completed) and Algebra II (may be concurrent) for AP Chemistry (2003370)

Physics I for AP Physics B (2003420) or AP Physics C (2003430)

Biology I, Chemistry I, and Algebra I for AP Environmental Science (2001380)

\*\*\* Electives

Anatomy and Physiology Honors 2000360

Biology II (may be paired with AP Biology but is a separate course) 2000330

Chemistry II (may be paired with AP Chemistry but is a separate course) 2003360

Marine Science I 2002500

Marine Science I Honors 2002510

Physics II (may be paired with AP Physics but is a separate course) 2003410

Zoology 200041

## Duval County Public Schools High School Graduation Requirements

Courses	For students entering grade 9 for the first time in 2006-2007	For students entering grade 9 for the first time in 2007-2008 and thereafter
English	4 credits (major concentration in composition and literature)	4 credits (include writing requirements appropriately rigorous – not just a literature course)
Mathematics	4 credits in grades 9-12 1 Algebra I - required 1 geometry- required 1 Algebra II - required 1 additional math	4 high school math credits taken in middle or high school in 2007-2008 or thereafter 1 Algebra I – required (MS/HS) 1 geometry – required (MS/HS) 1 Algebra II – required (HS only) 1 additional math (HS only)
Science	4 credits 1 biology 2 physical sciences (chemistry, physics, E/S) [two must have lab component] 1 additional science	4 credits 1 biology 2 physical sciences {chemistry (HS), physics (HS), E/S (HS), E/S Hrs (MS/HS)} [two must have lab component] 1 additional science
Social Studies	3 credits 1 world history 1 American history ½ American government ½ economics	3 credits 1 world history 1 American history ½ American government ½ economics
World Language*	2 credits (grades 9 – 12) which include consecutive courses in the same language Students who have been required to take 3 years of Intensive Reading in high school may be exempt from this requirement through a waiver process.	2 high school credits taken in middle or high school from 2007-2008 or thereafter which include consecutive courses in the same language Students who have been required to take 3 years of Intensive Reading in high school may be exempt from this requirement through a waiver process
Practical Career Education and/or Visual/Performing Fine Arts	1 credit practical arts career education or exploratory career education <u>or</u> 1 credit performing fine arts <u>or</u> ½ credit practical arts <u>and</u> ½ credit performing fine arts	1 credit performing fine arts or a state-approved practical arts
Life Management Skills	½ credit	
Physical Education	1 credit (including ½ credit of Personal Fitness and ½ credit PE elective)	1 credit H.O.P.E.
Personal, Social, Family Relationships		
Electives**	4.5 credits	5 credits
<b>Total</b>	24 credits	24 credits
State Assessment Requirements	earn passing scores on the FCAT (grade 10) <b>Reading/Math</b>	earn passing scores on the FCAT (grade 10) <b>Reading/Math</b>
Grade Point Average Requirements (GPA)	earn a cumulative, unweighted GPA of 2.0 on a 4.0 scale	earn a cumulative, unweighted GPA of 2.0 on a 4.0 scale

\* American Sign Language (ASL) may be used to meet the foreign language requirement. Postsecondary institutions outside of Florida may not accept ASL as a foreign language credit.

\*\* Students who scored a Level 1 or 2 on the FCAT Reading and/or Mathematics tests must be scheduled into an appropriate intensive reading/mathematics course or provided remediation as determined by diagnosis of needs.

**Curriculum Planning Grid**

	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>Language Arts</b>				
<b>Math</b>				
<b>Science</b>				
<b>Social Studies</b>				
<b>World Languages</b>				
<b>PE</b>				
<b>Major</b>				
<b>Other</b>				

## SCHEDULE CHANGE POLICY

### **Schedule changes may be appropriate in the following cases:**

1. A student has not met the prerequisites for the course
2. A student needs a course at a specific grade level in order to graduate
3. A student has failed a course and must repeat the course
4. A student is enrolled in a course that he or she has already completed

In the case of one of the situations above, schedule change requests along with the supporting documentation outlining how the case supports situation 1-4 should be sent to the guidance counselor. Completed schedule changes forms are due the first week of the semester.

### **Schedule changes may not be appropriate in the following cases:**

1. A student is enrolled in a course that has the potential to lower his or her GPA
2. A student does not like his or her teacher
3. A student is failing a course because he or she believes the course is too hard but has not completed all of his or her classwork and homework
4. A student is not succeeding in a course but has not taken advantage of safety net opportunities

In the case of one of these situations above, the first course of action is for the student to meet with his or her counselor and/or house administrator. The house administrator and/or counselor should speak with the student about why he or she feels unsuccessful. The house administrator and/or counselor should gather information related to the student's test grades, assignments completed, FCAT test scores, class referrals, and other documentation. A parent-teacher meeting should be set up in order to address any issues and analyze the student's grades and/or behavior in the class. If any systemic issues exist, such as an unfair grading or makeup policy, the pertinent issues should be brought to the attention of an administrator. If all of these policies are followed and the student still wishes to change his or her schedule, all supporting documentation mentioned above should be brought along with the schedule request to the student's guidance counselor for consideration. All schedule requests related to Advanced Placement classes must be brought along with all of the supporting documentation mentioned above directly to Dr. Rhodes for consideration.

### **If a schedule change is made, the following people shall be contacted immediately:**

- Student will be handed a new schedule in hardcopy
- Leaving teacher(s) will be contacted by email
- Receiving teacher(s) will be contacted by email
- House administrator and counselor will be contacted if appropriate
- Parent will be contacted if appropriate

**If a student moves into the same course, the receiving teacher will provide the student with remediation and grade recovery support.**

## Major Areas of Interest (MAIs)

In accordance with the State of Florida House Bill 7089, four elective credits in a MAI are required for graduation for those students who started 9<sup>th</sup> grade in school year 2007/2008 and later. Courses counting towards graduation requirements do not satisfy the MAI requirement.

The MAI courses are a set of related electives, for example fine art classes, technical classes, academic classes, or even physical education classes. Students do not have to be enrolled in a MAI every semester. Students may revise their major areas of interest each year as part of the annual course registration process and should update their education plan (ePEP) on FACTS.org to reflect such revisions.

Any questions in meeting this graduation requirement should be directed to your guidance counselor. Please also visit <http://www.fldoe.org/APlusPlus/Default.asp> for more information.

Below is the list of approved MAIs for Mandarin High School and courses satisfying the MAI requirement. Please understand that the courses below will be offered based upon teacher availability.

### 6111 AA Degree

- [dual enrollment classes]

### 4012 Academy of Sports Science and Emergency Services

- 1502490 Care and Prevention of Athletic Injury
- 2000350 Anatomy and Physiology
- 2107300 Psychology
- 0800300 Health Life Management
- 8417100 Health I
- 8417110 Health II
- 8500355 Nutrition and Wellness
- 8500390 Principles of Food
- 8400410 Health Science Cooperative

### 4019 AP Scholars

- 2000340 AP Biology
- 1202310 AP Calculus AB
- 2003370 AP Chemistry
- 2109380 AP Euro History
- 2103400 AP Human Geo
- 0706370 AP Latin: Virgil
- 2107350 AP Psychology
- 1210320 AP Statistics
- 0701380 AP French Language
- 0708400 AP Spanish Language

### 6113 AICE

- 2102321 AICE Economics I
- 1001550 AICE English Language
- 1005370 AICE English Literature
- 0701391 AICE French Language
- 1202370 AICE Further Mathematics
- 2100490 AICE International History
- 1202360 AICE Mathematics
- 2003431 AICE Physics
- 2000321 AICE Biology
- 2003371 AICE Chemistry
- 2107360 AICE Psychology
- 0708530 AICE Spanish Language
- 1700372 AICE Thinking Skills I
- 2100500 AICE United States History
- 2109371 AICE European
- 2100490 AICE International

#### 4018 AP Majors

- 2000340 AP Biology
- 1202310 AP Calculus AB
- 1202320 AP Calculus BC
- 2003370 AP Chemistry
- 2001380 AP Env. Science
- 2109380 AP Euro Hist
- 2103400 AP Human Geo
- 0706370 AP Latin: Virgil
- 2003420 AP Physics B
- 2107350 AP Psychology
- 1210320 AP Statistics
- 0701390 AP French
- 0701380 AP French Lang
- 0708400 AP Spanish
- 0708410 AP Spanish

#### 4030 Athletic Trainer

- 1503420 Advanced Aerobics
- 1501360 Advanced Weight Training
- 2000350 Anatomy and Physiology
- 2003600 Anatomy and Physiology Honors
- 1503400 Beginning Aerobics
- 1501340 Beginning Weight Training
- 0800300 Health I-Life Management Skills
- 1503410 Intermediate Aerobics
- 1501350 Intermediate Weight Training
- 2106350 Law Studies
- 2107300 Psychology I
- 2108300 Sociology
- 1502490 Care and Prevention of Athletic Injuries
- 1501390 Comp Fitness
- 1501310 Fitness Lifestyle Design
- 1501320 Fitness Issues for Adolescence
- 1502410 Indiv and Dual Sports I
- 1502420 Indiv and Dual Sports II
- 1503350 Team Sports I
- 1503360 Team Sports II
- 1502470 Recreation

#### 0199 Arts-Visual Arts

- 0102300 Ceramics/Pottery I
- 0108310 Creative Photography I
- 0108320 Creative Photography II
- 0108330 Creative Photography III
- 0108340 Creative Photography IV
- 0104320 Drawing and Painting I
- 0104340 Drawing I
- 0104350 Drawing II
- 0106300 Graphic Design I
- 0106310 Graphic Design II
- 0111300 3-D Art/Sculpture
- 0104310 2-D Art/Painting

#### 4043 Business and International Business Integrated

- 8203310 Acct Application I
- 8212110 Admin Office Tech I
- 1202310 AP Calculus AB
- 1202320 AP Calculus BC
- 1210320 AP Statistics
- 1206330 Analytical Geo
- 8200330 Computer and Bus Skills
- 8200320 Keyboarding
- 1202340 Pre-Calculus
- 1210300 Prob and Stats
- 2107300 Psychology I
- 2108300 Sociology
- 1007300 Speech I
- 1007310 Speech II
- 1001460 Applied Communications
- 1211300 Trigonometry

#### 4044 Business Publishing

- 8200320 Keyboarding and Business Skills
- 8200330 Computer and Business Skills
- 8209020 Computing for College
- 8200410 Business Cooperative Education-OJT

#### 4057 College Preparatory/ Humanities Concentration

- 0400310 Drama I
- 1006300 Journalism I
- 0708340 Spanish I
- 0708350 Spanish II
- 1007300 Speech I
- 1100300 TV Production I
- 1100310 TV Production II

#### 4062 COMM-General Communications

- 0102300 Ceramics/Potter
- 1007330 Debate I
- 1007340 Debate II
- 1006300 Journalism I
- 1006320 Journalism II
- 1006320 Journalism III
- 1006330 Journalism IV
- 1007300 Speech I
- 1007310 Speech II
- 1100300 TV Production I
- 1100310 TV Production II
- 1100320 TV Production III
- 1100330 TV Production IV
- 8200320 Keyboarding
- 8200330 Computer and Bus Skills
- 8209020 Computing for College and Careers

#### 4100 Education Integrated

- 2107350 AP Psychology
- 0500300 Exec Internship I
- 2107300 Psychology I
- 2108300 Sociology
- 1007300 Speech I
- 1007310 Speech II

#### 4104 Engineering Integrated

- 0200310 Computer Applications I
- 0200330 Computer Applications II
- 0201300 Computer Programming I
- 0201310 Computer Programming II
- 0201330 Computer Programming Basic I
- 0201340 Computer Programming Basic II
- 0200320 AP Computer Science
- 8209020 Computing for College and Careers
- 0500300 Executive Internship I
- 1202310 AP Calculus AB
- 1202320 AP Calculus BC
- 2003520 AP Physics
- 1210320 AP Statistics
- 2003390 Physics Honors
- 2003410 Physics II
- 1202340 Pre-Calculus
- 1211300 Trigonometry

#### 4112 Exercise Physiology

- 1502490 Care and Prevention of Athletic Injury
- 2000350 Anatomy and Physiology
- 2000360 Anatomy and Physiology Honors
- 8417100 Health I
- 8417110 Health II
- 8400410 Health Science Cooperative
- 1501390 Comparative Fitness
- 1501310 Fitness Lifestyle Design
- 2107300 Psychology
- 2108300 Sociology

#### 8500 Family and Consumer Science

- 8500345 Family Dynamics
- 8500355 Nutrition and Wellness
- 8500390 Principles of Food
- 8500395 Food Science Tech
- 8500310 Child Development
- 8500380 Fabric Construction

#### 6115 Fashion Design

- 8200320 Keyboarding
- 8200330 Computers and Business Skills
- 8209020 Computing for College
- 8500380 Fabric Construction

#### 4117 Fine Arts

- 1302300 Band I
- 1302310 Band II
- 1302320 Band III
- 1302330 Band IV
- 1302340 Band V
- 1302350 Band VI
- 1301310 Music Appreciation
- 0102300 Ceramics/Pottery I
- 0102310 Ceramics/Pottery II
- 0104320 Draw/Paint
- 0303300 Chorus I
- 1303310 Chorus II
- 1303320 Chorus III
- 1303330 Chorus IV
- 1303340 Chorus V
- 1303350 Chorus VI
- 0400310 Drama I
- 0400320 Drama II
- 0400330 Drama III
- 1302460 Ensemble I
- 1302470 Ensemble II
- 1302480 Ensemble III
- 1302490 Ensemble IV
- 1302420 Techniques I
- 1302500 Techniques II
- 1303440 Vocal Ensemble I
- 1303450 Vocal Ensemble II
- 1303460 Vocal Ensemble III
- 1303420 Vocal Techniques III
- 1303430 Vocal Techniques IV

#### 0799 Foreign Language

- 0706370 AP Latin-Vergil
- 0711320 AP Chinese Lang
- 0701380 AP French
- 0701380 AP French Lang
- 0708400 AP Spanish
- 0708410 AP Spanish
- 0701391 AICE French Lang
- 0708530 AICE Spanish Lang
- 0711300 Chinese I
- 0711310 Chinese II
- 0711320 Chinese III
- 0711330 Chinese IV
- 0701320 French I
- 0701330 French II
- 0701340 French III
- 0701350 French IV
- 0706300 Latin I
- 0706310 Latin II
- 0706320 Latin III
- 0706330 Latin IV
- 0706382 Pre-AICE Latin Lang I
- 0706384 Pre-AICE Latin Lang II
- 0708532 Pre-AICE Spanish Lang I
- 0708534 Pre-AICE Spanish Lang II
- 0708340 Spanish I
- 0708350 Spanish II
- 0708360 Spanish III
- 0708370 Spanish IV

#### 4124 General Education Advanced Academics

- 2103400 AP Human Geography
- 1202310 AP Calculus
- 2003370 AP Chemistry
- 2000340 AP Biology
- 0708400 AP Spanish Lang
- 0701380 AP French Lang
- 0706370 AP Latin
- 1210320 AP Statistics
- 2000360 Anatomy and Physiology Honors
- 2003380 Physics I
- 2003390 Physics Honors

#### 4126 Global Leadership

- 0711300 Chinese I
- 0711310 Chinese II
- 2107300 Psychology I
- 2108300 Sociology I
- 0708340 Spanish I
- 0708350 Spanish II
- 0708360 Spanish III
- 0708370 Spanish IV

#### 4131 Graphics and Printing

- 8601010 Communications Technology I
- 8601020 Communications Technology II
- 8601030 Communications Technology III
- 8209020 Computing for College and Careers
- 8200330 Computer and Bus Skills
- 8200320 Keyboarding
- 1006300 Journalism I
- 0500300 Executive Internship I

#### 4139 Health Promotion for Fitness

- 1501360 Adv Weight Training
- 1503310 Basketball
- 1503400 Beg Aerobics
- 1504500 Beg Tennis
- 1505500 Beg Volleyball
- 1501340 Beg Weight Training
- 1501390 Comprehensive Fitness
- 1502480 Outdoor Education
- 1503320 Soccer
- 1501320 Fitness Issues
- 1501310 Fitness Lifestyle Design
- 0800300 Health I
- 1502410 Indiv. and Dual Sports I
- 1502420 Indiv. and Dual Sports II
- 1503410 Intermediate Aerobics
- 1504510 Intermediate Tennis
- 1505510 Intermediate Volleyball
- 1501350 Intermediate Weight Training
- 8500355 Nutrition and Wellness II
- 8500390 Principles of Food
- 1502470 Recreational Activities
- 1503330 Softball
- 1503350 Team Sports I
- 1503360 Team Sports II
- 8500345 Family Dynamics

4149 Humanities Music

- 1302300 Band I
- 1302310 Band II
- 1302320 Band III
- 1303300 Chorus I
- 1303310 Chorus II
- 1303320 Chorus III
- 130330 Chorus IV
- 1302470 Ensemble II
- 1302480 Ensemble III

4152 Integrated Academic Focus

- 1202310 AP Calculus AB
- 1206330 Analytic Geometry
- 0701380 AP French Lang
- 0708400 AP Spanish Lang
- 2103400 AP Human Geography
- 2000350 Anatomy and Physiology
- 2000360 Anatomy and Physiology Honors
- 2000330 Biology II
- 2003380 Physics I
- 2003390 Physics Honors
- 1210300 Prob and Stats
- 2107300 Psychology I
- 1700300 Research I
- 1211300 Trigonometry

4153 Integrated Fine Arts

- 1302300 Band I
- 1302310 Band II
- 1302320 Band III
- 1302330 Band IV
- 1302340 Band V
- 1302350 Band VI
- 1303300 Chorus I
- 1303310 Chorus 2
- 0102300 Ceramics
- 0104340 Draw 1
- 0104350 Draw 2
- 0108310 Creative Photo

#### 4155 Integrated Humanities

- 2103400 AP Human Geography
- 2109380 AP European History
- 2107350 AP Psychology
- 0102300 Ceramics/Pottery
- 0900400 Intro to Bible
- 1302300 Band I
- 1302310 Band II
- 1302320 Band III
- 1302330 Band IV
- 1303300 Chorus I
- 1303310 Chorus II
- 1303320 Chorus III
- 1303330 Chorus IV
- 1301310 Music Appreciation
- 0400310 Drama I
- 0104340 Drawing I
- 0400300 Intro to Drama
- 1006300 Journalism I
- 2107300 Psychology I
- 1007300 Speech I
- 1100300 TV Production I
- 1100310 TV Production 2
- 0701320 French I
- 0701330 French II
- 0708340 Spanish I
- 0708350 Spanish II
- 0706300 Latin I
- 0706310 Latin II

#### 4158 Integrated Performing Arts

- 1303300 Chorus I
- 0400310 Drama I
- 1301310 Music Appreciation
- 0104340 Drawing I
- 1007300 Speech I
- 1100300 TV Production I

#### 1099 Language Arts

- 1006300 Journalism I
- 1006310 Journalism II
- 1006320 Journalism III
- 1006330 Journalism IV
- 1007300 Speech I
- 1007310 Speech II
- 1001460 Applied Communications I
- 1007330 Debate
- 1000410 Intensive Reading
- 1002380 Developmental Language Arts

#### 4175 Marketing

- 8827120 Marketing Applications
- 8827110 Marketing COOP
- 8800410 Marketing COOP OJT
- 8209020 Computing for College and Careers

#### 1200 Mathematics

- 1202310 AP Calculus AB
- 1202320 AP Calculus BC
- 1210320 AP Statistics
- 1202370 AICE Further Mathematics
- 1202360 AICE Mathematics
- 1206330 Analytic Geometry
- 1202300 Calculus
- 1202310 Pre-Calculus
- 1210300 Probability and Statistics with Applications
- 1200400 Intensive Math

#### 4182 Medical Academy

- 1502490 Care and Prevention of Athletic Injury
- 0706300 Latin I
- 0706310 Latin II
- 2107300 Psychology I
- 8417100 Health I
- 8417110 Health II

#### 4187 Multimedia

- 1006300 Journalism I
- 1006310 Journalism II
- 1006320 Journalism III
- 1006330 Journalism IV
- 1007300 Speech I
- 1007310 Speech II

#### 4188 Multimedia and Information Technology

- 0200310 Comp Apps I
- 0200330 Comp Apps II
- 8209020 Computing for College
- 0200320 AP Computer Science
- 0200360 Emergent Tech
- 0500300 Exec Internship I
- 1007300 Speech I
- 1007310 Speech II

#### 1399 Music

- 1302300 Band I
- 1302310 Band II
- 1302320 Band III
- 1302330 Band IV
- 1302340 Band V
- 1302350 Band VI
- 1303390 Chorus I
- 1303310 Chorus II
- 1303320 Chorus III
- 1303310 Chorus IV
- 1301310 Music Appreciation
- 1302460 Ensemble I
- 1302470 Ensemble II
- 1302480 Ensemble III
- 1302490 Ensemble IV
- 1302420 Techniques I
- 1302430 Techniques II
- 1302440 Techniques III
- 1302450 Techniques IV
- 1303440 Vocal Ensemble I
- 1303450 Vocal Ensemble II
- 1303460 Vocal Ensemble III
- 1303420 Vocal Techniques III
- 130430 Vocal Techniques IV

4194 Musical Theatre

- 1303300 Chorus I
- 1303310 Chorus II
- 1303320 Chorus III
- 0400310 Drama I
- 0400320 Drama II
- 0400330 Drama III
- 0400340 Drama IV

4200 Peer Counseling

- 1700380 Career Research and Decision Making (Keystone)
- 1700370 Critical Thinking and Study Skills (Keystone)
- 1400300 Peer Counseling I
- 1400310 Peer Counseling II
- 2107300 Psychology I

1599 Physical Education

- 1504520 Advanced Tennis
- 1505520 Advanced Volleyball
- 1501360 Advanced Weight Training
- 1503310 Basketball
- 1503400 Beginning Aerobics
- 1504460 Beginning Swimming
- 1504500 Beginning Tennis
- 1505500 Beginning Volleyball
- 1501340 Beginning Weight Training
- 1501390 Comprehensive Fitness
- 1501320 Fitness Issues for Adolescence
- 1501310 Fitness Lifestyles
- 1502410 Individual and Dual Sports I
- 1502420 Individual and Dual Sports II
- 1502430 Individual and Dual Sports III
- 1503410 Intermediate Aerobics
- 1504470 Intermediate Swimming
- 1504510 Intermediate Tennis
- 1505510 Intermediate Volleyball
- 1501350 Intermediate Weight Training
- 1503320 Soccer
- 1503330 Softball
- 1503350 Team Sports I
- 1503360 Team Sports II
- 1502490 Care and Prevention of Athletic Injuries
- 1502470 Recreation

4203 Physical Education and Recreation

- 2000340 AP Biology
- 2000350 Anatomy and Physiology
- 2000360 Anatomy and Physiology Honors
- 1503310 Basketball
- 1503400 Beg Aerobics
- 1301340 Beg Weight Training
- 1501390 Comprehensive Fitness
- 1501310 Fitness Lifestyle Design
- 1502410 Individual. and Dual Sports I
- 8500355 Nutrition and Wellness 2
- 1502480 Outdoor Recreation
- 0503350 Team Sports I

#### 4207 Pre-Engineering

- 0200310 Computer Applications I
- 0200330 Computer Applications II
- 8209020 Computing for College
- 0201300 Computer Programming I
- 0201310 Computer Programming II
- 0201330 Computer Programming-Basic I
- 0201340 Computer Programming-Basic II
- 0200320 AP Computer Science
- 0500300 Executive Internship I
- 1202310 AP Calculus AB
- 1202320 AP Calculus BC
- 2003420 AP Physics
- 2003370 AP Chemistry
- 1210320 AP Statistics
- 2000330 Biology II
- 1202300 Calculus
- 1298310 Advanced Topics in Math
- 2003360 Chemistry II
- 2003380 Physics I
- 2003390 Physics I honors
- 2003410 Physics II
- 1202340 Pre-Calculus
- 1211300 Trigonometry

#### 4208 Pre-Medicine

- 200340 AP Biology
- 2003370 AP Chemistry
- 2000350 Anatomy and Physiology
- 2000360 Anatomy and Physiology Honors
- 2000330 Biology II
- 2003360 Chemistry II
- 0706300 Latin I
- 0706310 Latin II
- 2003380 Physics I
- 8417100 Health I
- 8417110 Health II
- 8400320 Medical Skills and Services
- 8500355 Nutrition and Wellness
- 8500390 Principles of Foods
- 2107300 Psychology
- 0500300 Executive Internship

#### 4211 Public Relations and Marketing

- 8827100 Marketing
- 8827120 Marketing App II
- 8800410 Marketing Coop OJ
- 8827110 Marketing Essentials II

#### 4214 Reading Applications

- 1001460 Applied Communications I (Newspaper)
- 1001470 Applied Communications II
- 1000410 Intensive Reading
- 1700370 Critical Thinking and Study Skills (Keystone)

#### 1802 ROTC and Military Training

- 1801300 Leadership
- 1801310 Leadership
- 1801320 Leadership
- 1801330 Leadership
- 1802300 Naval Science I
- 1802310 Naval Science II
- 1802320 Naval Science III
- 1802330 Naval Science IV

#### 2099 Science

- 2000340 AP Biology
- 2003310 AP Chemistry
- 2003420 AP Physics
- 2001320 AP Environmental Science
- 2000321 AICE Biology I
- 2003371 AICE Chemistry I
- 2001381 AICE Environmental Science
- 2003431 AICE Physics
- 2000380 Ecology
- 2000350 Anatomy/Physiology
- 2000360 Anatomy/Physiology Honors
- 2002500 Marine Science I
- 2002500 Marine Science Honors
- 2003380 Physics I
- 2003390 Physics I Honors
- 2003410 Physics II
- 2003360 Chemistry II
- 2000330 Biology II
- 2000410 Zoology

#### 2199 Social Studies

- 2103400 AP Human Geo
- 2107350 AP Psychology
- 2109380 AP European History
- 2100340 African-Am History
- 2102321 AICE Economics I
- 2102322 AICE Economics II
- 2106350 Law Studies
- 2107300 Psychology
- 2105310 World Religions

#### 4221 Sports Management and Marketing

- 2000350 Anatomy and Physiology
- 1502490 Care and Prevention of Athletic Injury
- 1700380 Career Research and Decision Making (Keystone)
- 1501390 Comprehensive Fitness
- 1501320 Fitness Issues
- 1501310 Fitness Lifestyle Design
- 1502470 Recreation
- 0800300 Health Life Management
- 1007300 Speech I
- 8417100 Health I
- 8417110 Health II
- 8417131 Allied Health

#### 4222 Sports Medicine

- 2000340 AP Biology
- 2000360 Anatomy and Physiology Honors
- 2000330 Biology II
- 1502490 Care and Prevention of Athletic Injury
- 1501390 Comprehensive Fitness
- 1501310 Fitness Lifestyle Design
- 0800330 Personal Social Family Relations
- 8417100 Health I
- 8417110 Health II
- 8400320 Medical Skills and Services

#### 4225 STEM Modified-Science, Technology, Engineering, and Mathematics

- 2000340 AP Bio
- 1202310 AP Calculus AB
- 1202320 AP Calculus BC
- 2003370 AP Chemistry
- 2003420 AP Physics
- 2001380 AP Environmental Science
- 1210320 AP Statistics
- 1206330 Analytic Geo
- 2000350 Anatomy and Physiology
- 2000360 Anatomy and Physiology Honors
- 2000330 Biology II
- 0201330 Computer Programming Basic I
- 0201340 Computer Programming Basic II
- 0200320 AP Computer Science
- 1200400 Intensive Math
- 1298310 Advanced Topics in Math
- 2002510 Marine Science Honors
- 2002530 Marine Science II Honors
- 2003380 Physics I
- 2003390 Physics I Honors
- 1210300 Probability and Statistics
- 1007300 Speech I
- 1007310 Speech II
- 8601110 Woodshop I
- 8601120 Woodshop II
- 8601130 Woodshop III
- 8600510 Tech Studies I
- 8209020 Computing for College
- 8200330 Computer and Bus Skills
- 8200320 Keyboarding
- 1211300 Trigonometry
- 2000410 Zoology

## ESE-Specific Majors

### 4052 Child and Family Services

- 7921330 Career Education 9-12
- 7980120 Career Experiences
- 7980130 Career Placement
- 8500310 Child Development
- 8500355 Nutrition and Wellness
- 8500330 Personal, Social, Family

### 4065 Commercial Foods Assistant

- 7980120 Career Experiences
- 7980130 Career Placement
- 7920050 Health and Safety 9-12
- 8500390 Principles of Food

### 4079 Custodial Assistant

- 7980120 Career Experiences
- 7980130 Career Placement
- 7980100 Career Preparation

### 4103 Employability Skills

- 7921330 Career Ed 9-12
- 1700370 Critical Thinking Skills
- 1700380 Career Research and Decision Making
- 1400300 Peer Counseling I
- 1400310 Peer Counseling II
- 1007300 Speech I
- 1007310 Speech II
- 0500300 Executive Internship

### 4120 Food Services Assistant

- 7980120 Career Experiences
- 7980130 Career Placement
- 8500365 Family and Consumer
- 8500355 Nutrition and Wellness
- 8500390 Principles of Food

### 4114 Hospitality Support Personnel

- 7980120 Career Experiences
- 7980130 Career Placement
- 7920050 Health and Safety

### 4142 Hospitality and Tourism Assistant

- 7921330 Career Education 9-12
- 7980120 Career Experiences
- 7980130 Career Placement
- 7980110 Career Preparation
- 7920050 Health and Safety 9-12

### 4165 Landscape Operations

- 7980120 Career Experiences
- 7980130 Career Placement
- 7920050 Health and Safety 9-12

### 6004 Office Support Personnel

- 7980120 Career Experiences
- 7980130 Career Placement
- 7980100 Career Preparation

### 4215 Retail Trade Assistant

- 7980120 Career Experiences
- 7980130 Career Placement
- 7980100 Career Preparation

### 4239 Workforce Readiness

- 7980120 Career Experiences
- 7980130 Career Placement
- 7980100 Career Preparation

## Special Programs

### **Mandarin High School Center for Medical Studies Career Academy**

Beginning sophomore year, students interested in the health and medical field will gain valuable practical experience in the academy by taking three core courses in **Health Science 1** (one credit), **Health Science 2** (one credit) and **Allied Health 3** (one credit). Following the completion of Health Science 1 and Health Science 2, the students are eligible to take the national certification examination (Nocti) with instructor approval and the completion of a portfolio. Senior year Allied Health 3 consists of extensive clinical experience on-site at Baptist South Hospital job shadowing and mentoring with the medical staff at the hospital and other medical-related sites.

The purpose of this program is to prepare a student for employment as an allied health aide, medical assistant, medical laboratory assistant, occupational therapy aide, physical therapy aide, respiratory therapy aide or radiological aide. Students will perform skills representative of at least, but not limited to, three areas of allied health care in the laboratory and clinical settings. Major areas of allied health are defined as physical therapy, emergency, radiation, laboratory and respiratory medicine and occupational therapy. Other areas of health, medicine, dentistry or veterinary may be included with instructor provided competencies

Students wishing to explore interest in the medical academy can enroll in two freshmen exploratory courses entitled **Orientation to Health Occupations/Exploration of Health Occupations**. Each course is ½ credit.

### **Advanced International Certificate of Education Magnet Program**

The Advanced International Certificate of Education (AICE) is an international pre-university curriculum and examination system written and administered by the Local Examinations Syndicate at the University of Cambridge.

#### **Group A – Mathematics and Sciences:**

AICE Mathematics A Level

Prerequisites: AICE Mathematics AS Level

Grade Level: 11-12

Credit: 1

The purpose of this course is to enable students to obtain a thorough understanding of analytical geometry, pre-calculus and calculus concepts and their applications. The content will include, but not be limited to, the following: sequences and series; convergence, divergence, sigma notation, factorials, combination binomial theorem, the modulus function; meaning and use in solving equations; rational functions and graphs; partial fraction decomposition; asymptotes, transformations, and other graphing techniques; trigonometrical functions; inverse trig functions, addition and subtraction identities, solving trig equations; complex numbers; vectors; differentiation and integration; implicit differentiation; parametric equation, integration by substitution, trig substitutions, Masclaurin series; forces and equilibrium; force vectors, equilibrium, friction; rectilinear motion; displacement/time graphs, velocity/time graphs, area under a graph, acceleration, motion models; motion of a projectile, horizontal and vertical equations of motion, trajectory; Newton's laws of motion; application of  $F=ma$ , negligible mass; momentum and impulse; conservation of linear momentum; energy, power and work; potential energy and kinetic energy, Hooke's law, conservation of energy, relation between power, force, and velocity.

### AICE Mathematics AS Level

Prerequisites: Honors Geometry, Honors Algebra II, Pre-Calculus

Grade Level: 11-12

Credit: 1

The purpose of this course is to enable students to obtain a thorough understanding of algebraic, trigonometric, and calculus concepts. The content will include, but not be limited to, the following: polynomials; identities, equations, and inequalities; Indices and proportionality; sequences; graphs and coordinate geometry; vectors; functions; logarithmic and exponential functions; circular measure; trigonometrical functions; differentiation; integration; applications of calculus; use of derivatives to find tangents, normals, maximum and minimum points, rates of change, velocity and acceleration, use of integration to find plane areas and volumes of revolution; first order differential equations; numerical methods; and probability.

### AICE Further

Prerequisites: Honors Geometry, Honors Algebra II, Pre-Calculus

Grade Level: 11-12

Credit: 1

### AICE Biology

Prerequisites: Honors Biology, Honors Chemistry I,  
Honors Algebra II

Grade Level: 11-12

Credit: 1

The purpose of this course is to provide exploratory experiences, laboratory, and real-life applications in the biological sciences. The content includes, but is not limited to, the following: matter, energy, and chemical life processes; cells: biology, reproduction, and communication; levels of organization, classification, and taxonomy; evolution: biological selection, adaptations, and changes through time; experimental techniques; structure, function, and reproduction of plants, animals, and microorganism; ecology: interdependence of organisms, humans, and the environment.

### AICE Chemistry

Honors Biology, Honors Chemistry I,  
Pre-Calculus

Grade Level 11-12 Prerequisites:

Credit: 1

### AICE Physics

Prerequisites: Honors Biology, Honors Chemistry I,  
Pre-Calculus, Honors Physics

Grade Level 11-12

Credit: 1

The purpose of this course is to provide opportunity to study the concepts, theories, and laws governing the interaction of matter, energy, and forces and their applications through exploratory investigations and activities. The content shall include, but not be limited to the following: use of physical quantities and units; vectors and scalars; linear motion and dynamics; forces; work, energy and power; rotational motion and dynamics; thermal dynamics; properties of matter; vibrations and waves including sound; light and optics; electricity and magnetism; nuclear physics; electronics; energy in use; awareness of interaction among science, technology, and society.

## **Group A or Group C**

### AICE Thinking Skills AS Level/A Level

Prerequisites: Honors English II, Pre-Calculus

Grade Level: 11-12

Credit: 1

The purpose of this course is to develop a range of transferable thinking skills and processes. These skills are valuable and relevant within other subjects as well as being essential for further and higher education. It engages students in the study of language of reasoning by identifying reasons, evaluating reasoning of different kinds, recognizing and evaluating assumptions, clarifying expressions and ideas, and the production of reasoning appropriate to a given task.

## Group B – Languages

### AICE English Language

Prerequisites: Honors English I & II

Grade Level: 11

Credit: 1

The purpose of this course is to provide students with an understanding of the semantic, structural, and rhetorical resources of the English language as they relate to the principles of effective writing. The course also provides a variety of writing opportunities calling for the use of different styles and tones.

### AICE Foreign Language - French

Prerequisites: French III

Grade Level: 11-12

Credit: 1

The purpose of this course is to develop students' ability to communicate in French confidently and clearly in speech and written language. Students will be encouraged to read widely, to use relevant vocabulary, employ correct grammar, spelling and punctuation. The students will develop the ability to analyze, synthesize, and make inferences, order facts and present opinions.

### AICE Foreign Language – Spanish

Prerequisites: Spanish III

Grade Level 11-12

Credit: 1

The purpose of this course is to develop students' ability to communicate in Spanish confidently and clearly in speech and written language. Students will be encouraged to read widely, to use relevant vocabulary, employ correct grammar, spelling and punctuation. The students will develop the ability to analyze, synthesize, and make inferences, order facts and present opinions.

### AICE Latin Language

Prerequisites: Latin III

Grade Level 11-12

Credit: 1

**Offered based upon instructor availability**

The purpose of this course is to enable students to enhance their proficiency in the foundation of Latin vocabulary and grammar and to expand their knowledge of classical culture.

### AICE Chinese Language

Prerequisites: Chinese III

Grade Level 11-12

Credit: 1

**Offered based upon instructor availability**

The purpose of this course is to develop students' ability to communicate in Chinese confidently and clearly in speech and written language. Students will be encouraged to read widely, to use relevant vocabulary, employ correct grammar, spelling and punctuation. The students will develop the ability to analyze, synthesize, and make inferences, order facts and present opinions.

## Group C – Arts & Humanities

### AICE English Literature

Prerequisites: Honors English I & II

AICE English Language

Grade Level: 12

Credit: 1

The purpose of this course is to give students the opportunity to read a wide range of literary material thus encouraging an appreciation and understanding of all three genres – prose, poetry, and drama – to develop powers of logical and lateral thought through imaginative response to a wide range of transactional and literary material and to stimulate effective and appropriate communication in writing and speaking.

AICE US History

Prerequisites: AP/Honors World History

Grade Level: 11

Credit: 1

The purpose of this course is to enable students to understand the development of the United States within the context of history with a major focus on the transformation of the USA from an isolated agrarian society of the 1840's to the world's leading superpower. Students will demonstrate an understanding of the complexity of issues and themes within a United States historical period, and distinguish and assess different approaches to, interpretations of, and opinions about the United States past. The course explicitly encourages the development of two fundamental historical skills, the construction of clear, concise, logical, and relevant arguments and the evaluation and interpretation of source materials.

AICE Economics

Prerequisites: Pre-Calculus

Grade Level: 11-12

Credit: ½

The purpose of this course is to provide students with the knowledge and decision-making tools necessary for understanding how society organizes its limited resources to satisfy its wants. Students will gain understanding of choices they must make as producers, consumers, investors and taxpayers. The content shall include, but shall not be limited to, the following: economic reasoning; principles of decision-making in the marketplace; resources and the economic problem; allocative mechanisms; economic incentives; the circular flow of national income; specialization, trade and exchange; international trade; economic development; policy objectives and instruments.

AICE International History – 1945- 1991

Prerequisites: AP/Honors World History  
AP/AICE US History

Grade Level: 11-12

Credit: 1

**Offered based upon instructor availability**

The purpose of this course is to enable students to understand the major international issues and their connection to the past, which have shaped the world since World War II. Students will use knowledge pertaining to history, geography, economics, political processes, religion, ethics, inverse cultures and humanities to develop a historical perspective on many of the most important issues of the contemporary world. The course encourages the teacher and students to view the study of History as a series of questions to be explored and analyzed, while explicitly encouraging the development of two fundamental historical skills, the construction of explanations and the use of source materials.

AICE Geography

Prerequisites: AP/Honors World History

Grade Level: 11 -12

Credit: 1

**Offered based upon instructor availability**

The purpose of this course is to enable students to acquire and organize information about places, people, and culture throughout the world to develop a sense of where they are in time, space and culture, and to reinforce their own personal and social identity.

AICE Modern European History

Prerequisites: AP/ Honors World History  
AP/AICE US History

Grade Level: 12

Credit: 1

**Offered based upon instructor availability**

The purpose of this course is to enable students to understand the developments that shaped Modern European History. This will be achieved with a logistic understanding of Europe as a geographic region from 1789 to 1939. Europe's key development will be studied in relation to the wider European context and with attention focused on the broader issues ( revolution, nationalism, imperialism, was and totalitarianism) that helped shape European History.

## **Graduation Initiative Program (Dropout Prevention)**

The Graduation Initiative program is designed for students who are two or more years behind their peers and are too far behind on credits to graduate on time in the class with whom they entered kindergarten. The program is not a means to graduate early. Students may apply for the one-year program by picking up an application from the program coordinator. Applicants will be screened and must take the Test of Adult Basic Education (TABE), as well as meet various eligibility requirements. Once enrolled in the program, students must pass all parts of the FCAT and GED to earn a Duval County District Diploma. Through computer based assignments and teacher led instruction, students prepare for the FCAT and GED two periods per day and participate in a work program two periods per day. Students must be 17 years old by September 1<sup>st</sup> of the application school year in order to apply for the program. Students should see Mary Matthews Martin for an application.

## **2010-2011 Course Offerings by Department**

Students may choose courses from the following list to meet graduation requirements. The list is based on **state** and **county** graduation requirements. College preparatory and standard courses of study follow. **Course offerings are all contingent upon available resources.**

### **BUSINESS TECHNOLOGY**

#### **Keyboarding and Business Skills**

1/2 Cr. Gr. 9-12

This course is designed to provide a basic overview of current business systems. Emphasis is placed on development proficiency with touch keyboarding and fundamental word processing applications.

#### **Computer and Business Skills**

1/2 Cr. Gr. 9-12

Prerequisite: Keyboarding and Bus Skills

This course is designed to introduce students to the basic skills and foundations required for today's business environments. Emphasis is placed on developing proficiency with touch keyboarding and fundamental computer applications including word processing, spreadsheet, database, and integrated software.

#### **Computing for College and Careers**

1 Cr. Gr. 9-12

This course is designed to provide a basic overview of current business information systems and trends to introduce students to the basic skills and foundations required for today's business environments. Proficiency with touch keyboarding and computer application is emphasized as communication tools for enhancing workplace skills in an information-based society.

#### **Accounting Applications I**

1 Cr. Gr. 9-12

This course develops skills preparing financial records, payroll records, simulated set of books and computerized accounting.

#### **Business Software Applications I**

1 Cr. Gr. 9-12

This course is designed to develop proficiency in using the advanced features of software programs to perform office tasks.

#### **Business Software Applications II**

1 Cr. Gr. 9-12

Prerequisite: BSA I

This course is designed to use technology to produce high quality employment portfolios, research job opportunities, and compile and disseminate job-seeking documents.

Administrative Office Technology I

1 Cr. Gr. 11-12

The course provides BCE students common reinforcements. Additional competencies in the program including maintaining job-related forms and instructions related to the specific job the students are performing.

Administrative Office Technology II

1 Cr. Gr. 11-12

Coordinators' Approval Required

This course explores and expands the competencies learned in Administrative Office Technology I and promotes application of higher-level office procedures, tasks, and communication skills.

Business Cooperative Education/OJT

1 Cr. Gr. 11-12

Coordinators Approval Required

This course provides paid on-the-job training and development of occupational competencies.

Marketing I

1 Cr. Gr. 11-12

Coordinators Approval Required

This course is an introduction in the world of marketing, covering areas such as sales, promotion, economics, pricing, risk management, and securing and keeping a job in the field of marketing. Eleventh and twelfth graders enrolled in this program may also elect Marketing Cooperative Education/OJT with coordinator's approval.

Marketing II

1 Cr. Gr. 12

Coordinators Approval Required

This course is designed to develop further understanding and to refine the skills learned in Marketing I. Class instruction covers the areas of risk management, entrepreneurship, financing, and market research. Twelfth grade students enrolled in this course may also elect Marketing /OJT.

Marketing Cooperative Ed/OJT

1 Cr. Gr. 11-12

Coordinators Approval Required

This course provides job experiences and develops occupational competencies required for employment in the marketing industry.

**COMPUTER SCIENCE**

Computer Applications I

1/2 Cr. Gr. 9-12

The course covers current software packages. The major focus involves introducing the use of word processing, spreadsheet, database management software and application tools for schools and businesses.

Computer Applications II

1/2Cr. Gr. 9-12

Prerequisite: Computer App. I

This continuation of Computer Applications I is designed to cover applications for word-processing, spreadsheets, and database management for school and business and serve as an introduction to graphics, presentation, and desktop publishing software packages.

Computer Programming I

1 Cr. Gr. 9-12

Prerequisite: Computer Apps. I & II

This course enables students to develop knowledge of programming concepts in one or more languages and covers: sequential, logical problem solving; algorithms; flowcharts; syntax; and data structures.

Emergent Computer Technologies

1 Cr. Gr. 9-12

Prerequisite: Computer Apps. I & II

The course covers computer repair and diagnostics and involves troubleshooting and repair of computer hardware, including storage devices, printers and peripherals.

Web Masters

1 Cr. Gr. 9-12

Prerequisite: Comp Prog I

This is an advanced web design class that focuses on web site promotion techniques and web programming, including Active Server Pages, Javascript, and Flash.

AP Computer Science

1 Cr. Gr. 9-12

This course prepares students to take the AP exam in computer science and emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development, the study of data structures, design, and abstraction and is meant to be the equivalent of a first-semester college-level course in computer science.

**DRIVER EDUCATION**

Driver Education

1/2 Cr. Gr. 10-12

Driving rules are covered using classroom, and multiple car driving. A certificate awarded upon the successful completion of the course, which substitute for the driving test for an operator's license. Some insurance companies grant a discount for the successful completion of this course.

**FAMILY AND CONSUMER SCIENCE**

\*\*The fees involved in these courses are required since students will craft or cook projects to consume or take home.

Child Development

1/2 Cr. Gr. 9-12

Offered based upon instructor availability

This course prepares students to understand child development from conception to school age and emphasizes the physical, emotional, social, and intellectual development in children. The course provides students with knowledge and skills to care for children.

Family Dynamics

1/2 Cr. Gr. 9-12

Offered based upon instructor availability

This course prepares students for the dual role of parent and wage earner. Students will experience making choices and practicing skills as a parent. The roles of males and females as parents assisting children to become effective citizens in a multicultural and technological society are emphasized.

Fashion Production

(Sewing Lab)

1 Cr. Gr. 9-12

Basic sewing skills are introduced with an emphasis on machine and hand stitching. Students select patterns and fabrics to complete individual projects.

**Each student purchases his or her own fabric in addition to a \$5 materials fee.**

Nutrition and Wellness

(Foods Lab)

1/2 Cr. Gr. 9-12

Students explore the relationships between nutrition and staying healthy. They learn to plan and prepare meals, practice proper etiquette, and apply science and technology to food-related experiences.

**This course has a \$20 fee to pay for food supplies.**

Principles of Food Preparation

(Adv. Foods Lab.)

1/2 Cr. Gr. 9-12

Prerequisite: Nutrition & Wellness

This course provides a broad range of practical experiences and includes instruction in menu planning, recipe interpretation, and foods for special occasions. An emphasis is placed on preparation of foreign and regional foods.

**This course has a \$25 fee to pay for food supplies.**

Food Science Technology

1 Cr. Gr. 10-12

Prerequisite: Nutrition and Wellness and Principles of Food Preparation

The purpose of this course is to provide an advanced foods and nutrition curriculum. The physical and chemical changes in food are studied through food experiments.

**This semester course has a \$50 fee to pay for food supplies.**

**WORLD LANGUAGES**

**\*\*Two years of the same world language are required for graduation.**

French I

1 Cr. Gr. 9-12

This is an introductory course for the progressive development of listening comprehension, speaking, reading, writing, and cultural appreciation in French.

French II

1 Cr. Gr. 9-12

This is an intermediate course where an emphasis continues to be placed on reading, listening, speaking, and writing skills. Students are expected to master communication skills in well-defined contexts. Students are given a grammatical foundation and reading skills beneficial to overall literacy.

French III

1 Cr. Gr. 9-12

Comprehension and speaking skills are further developed by giving students more frequent opportunity to engage in conversation. Writing skills are expanded by writing in the language on specified topics of current, historical interest.

AP French

1 Cr. Gr. 10-12

This college-level course focuses on both oral and writing proficiency in the French language. Students must have a good command of French grammar and competency in listening, reading, speaking, and writing.

Latin I

1 Cr. Gr. 9-12

Offered based upon instructor availability

The course focuses on Latin language with special emphasis placed on word study customs, mythology, and history. Word study involves the learning of Latin roots to increase one's vocabulary. The syntax of Latin grammar greatly aids the students' comprehension of English grammar.

Latin II

1 Cr. Gr. 9-12

Offered based upon instructor availability

This course continues the study of the Latin language with special emphasis placed on word study, customs, mythology, and history. Selections from Caesar's writings will be read.

Latin III

1 Cr. Gr. 10-12

Offered based upon instructor availability

The purpose of this course is to continue the study of the Latin language and the Roman history and culture. The content should include the review and expansion of the essentials of Latin grammar, readings in prose, the study of the Roman civilization through its literature with emphasis on politics, history, and mythology, and intensive derivative study to refine the students' English vocabulary.

Latin IV AP Virgil

1 Cr. Gr. 11-12

Offered based upon instructor availability

This course furthers the study of the Latin language through reading selections from Virgil's AENEID and preparation for the AP exam.

Spanish I

1 Cr. Gr. 9-12

This is an introductory course involving progressive listening comprehension, speaking, reading, and writing as well as Spanish and Hispanic culture.

Spanish II

1 Cr. Gr. 9-12

An intermediate course with continuing progress in listening, speaking, reading and writing skills. The emphasis is on building a strong grammatical foundation.

Spanish III

1 Cr. Gr. 9-12

Comprehension and speaking skills of understanding and speaking Spanish are further developed by giving students more frequent opportunities to engage in free conversation. Reading and writing skills are expanded.

AP Spanish

1Cr. Gr. 11-12

This college-level Advanced Placement course in Spanish language focuses on proficiency in both oral and written language. Students should have a good command of the grammar and considerable competence in listening, reading, & writing.

Chinese I

1 Cr. Gr. 9-12

This course focuses on the Chinese culture and language.

Chinese II

1 Cr. Gr. 9-12

This course focuses on the Chinese culture and language.

Chinese III

1 Cr. Gr. 9-12

This course focuses on the Chinese culture and language.

Chinese IV

1 Cr. Gr. 9-12

This course focuses on the Chinese culture and language.

AP Chinese

1 Cr. Gr. 9-12

This college level course continues the study of Chinese.

## LANGUAGE ARTS

English I  
1 Cr. Gr. 9

This course focuses on the study of print and non-print communication with an emphasis on reading and writing and on the elements of four literary genres including nonfiction, fiction, poetry, and drama. Summer reading is required.

English I Honors/Pre-AICE  
1 Cr. Gr. 9

This course prepares students for AP English through enriched experiences in literature, writing, speaking, and listening. The content includes instruction in the critical analysis of major literary genres. Composition instruction focuses upon using the writing process in literary analysis. Formal speaking experiences are provided. Summer reading is required.

English II  
1 Cr. Gr. 10

This course focuses on the study of print and non-print communication with an emphasis on reading and writing and on the elements of four literary genres including nonfiction, fiction, poetry and drama. Summer reading is required.

English II Honors/Pre-AICE  
1 Cr. Gr. 10

This course prepares students for AP English and AICE. Students are involved in reading level novels, critical reading and analysis of poetry, prose, including AP level novels, and drama in order to develop independent critical competencies in the study of literature and foster a high level of achievement in reading, writing and speaking and nonfiction selections. Summer reading is required.

English III  
1 Cr. Gr. 11

This course stresses composition through the application of developmental writing, vocabulary, and research methods and focuses on the study of the forms of reading and interpretation of elements in American literature. Summer reading is required.

AP Language and Composition/AICE Lang  
1 Cr. Gr. 11

This is a college-level course involving critical reading of and writing about prose fiction and non-fiction with an analysis of rhetorical aims and modes, distinguishing features of semantics, structure, purpose and audience in relation to meaning, as well as learning to model aims and modes. Summer reading is required.

English IV

1 Cr. Gr. 12

This course stresses composition through the application of developmental writing, vocabulary, and research methods and focuses on the study of the forms of reading and interpretation of elements in American and British literature. Summer reading is required.

AP Literature and Composition/AICE Lit

1 Cr. Gr. 12

This Advanced Placement course examines English language literary texts and effective writing. Students gain an appreciation of works of literary merit from the 16<sup>th</sup> century to the present. The course focuses on critical analysis, writing as a craft, and awareness of language. Summer reading is required.

Intensive Reading

1 Cr. Gr. 9-12

This course designed for students scoring below the 40<sup>th</sup> percentile on Standardized tests, or a level 2 or below on the 8<sup>th</sup> or 9<sup>th</sup> grade FCAT in reading. Students are directed to reading activities to enhance comprehension skill, building vocabulary and improve reading fluency.

Newspaper

1 credit Gr. 9-12

Offered based upon instructor availability

This course reviews newspaper design. Students write the school newspaper. The purpose of this course is to develop competence in communication skills within the context of career, workplace, and community.

Debate I-IV

1 credit Gr. 9-12

Offered based upon instructor availability

This course reviews debate concepts through a practical and theoretical framework.

Television Production I

1 Cr. Gr. 9-12

This course includes an overview of television production, the history of television and its role as an element of the mass media, television-related careers, orientation to writing for television, and basic use of equipment such as VCR's and cameras.

Television Production II

1 Cr. Gr. 9-12

Prerequisite: TV I

This course provides opportunities for students who have taken TV I to develop advanced skills in television production. The content is based on field production, editing techniques, and studio production in the format of a news show.

Television Production III and IV

1 Cr. each Gr. 10-12

Prerequisites: TV I & II

These courses provide opportunities for students who have taken TV II to produce a variety of television programming and creative video projects. The students will use communication tools to design and produce daily news shows for broadcast throughout the school.

Journalism I

1 Cr. Gr. 10-12

This course involves learning the basic components of publication design and writing. Students learn terminology, rules of writing, basic columnar designing and computer software associated with publishing a newspaper, magazine, or yearbook.

Journalism II, III, IV(Yearbook)  
1 Cr. Gr. 10-12

This course involves learning the components associated with the advanced design of various annuals or publications. Students apply terminology and rules of writing from Journalism I and design using grids and computer software. These students hold leadership positions. This course requires students to participate in activities beyond the school day.

### **LEADERSHIP AND PERSONAL DEVELOPMENT**

Leadership Skills Development  
1 Cr. Gr. 11-12  
Teacher Recommendation

The purpose of this course is to teach leadership skills, parliamentary procedure, problem solving, decision making, communication skills, group dynamics, time and stress management, public speaking, human relations, public relations, team building, and other group processes.

Peer Counseling I and II  
½ Cr. Each Gr. 9-12

These courses cover social and counseling topics.

### **MATHEMATICS**

Intensive Math  
1 Cr. Gr. 9-12

This course is an introduction of CPM mathematics. The course awards elective rather than math credit.

Algebra I  
1 Cr. Gr. 9-12

This course involves a study of the structure and properties of real numbers. Problem-solving techniques used include solving for equations, inequalities, polynomials, rational expressions, and functions.

Geometry  
1 Cr. Gr. 9 – 12

Plane geometric figures are studied including segments, lines, rays, angles, polygons, with an emphasis on triangles and quadrilaterals, and circles. Concepts explored include area, perimeter, volumes of solids, and coordinate geometry.

Geometry Honors/Pre-AICE Math I  
1 Cr. Gr. 9-12

This course is for students aiming to take Calculus. The same skills are developed as standard geometry but with a more rigorous attention to the concepts of proofs and transformations.

Algebra II  
1 Cr. Gr. 10-12

This course covers systems of real and complex numbers. Problem-solving techniques are expanded and equations, inequalities, polynomials, rational expressions and functions are emphasized.

Algebra II Honors

1 Cr. Gr. 10-11

This course is designed for students preparing for Calculus and develops the same skills as Algebra II but in more depth and at a faster pace. Matrices, sequences and series, exponential and logarithmic functions, and probability are studied.

Advanced Topics in Mathematics

1 Cr. Gr. 12

This course is designed for students coming out of Algebra II who need additional work with algebra skills and techniques before entering college. Extended topics include exponential and logarithmic functions, an introduction to trig functions, sequences and series, and probability.

Probability and Statistics

1 Cr. Gr. 11-12

This course is designed for students who have completed Algebra II or trigonometry and analytic geometry and desire an additional math credit. The curriculum explores the concepts of probability, elementary statistics, and hypothesis testing.

AP Statistics

1 Cr. Gr. 11-12

This course is designed for students who have excelled in Alg. II or trigonometry and analytic geometry. The curriculum emphasizes collection and exploratory data analysis, probability and statistical inferences, and the extensive use of technology. Student may take AP Statistics at the same time as Pre-Calculus or AP Calculus.

Trigonometry

½ Cr. Gr. 11-12

Circular and trigonometric functions and their applications including the solutions of triangles are explored in this course.

Analytic Geometry

1/2 Cr. Gr. 11-12

This course uses the coordinate plane to study the relationships between Algebra and Geometry and reviews the graphing algebraic and transcendental functions.

Pre-Calculus

1 Cr. Gr. 11-12

This course is designed for students preparing for calculus and involves an intensive study of algebraic and transcendental functions including circular and trig functions, sequences and series, matrices, math induction, and derivatives. Parametric and polar curves, sequences and series, vectors, and matrices are also included.

AP Calculus AB

1 Cr. Gr. 12

This course is designed for college-bound seniors planning to major in math or science related fields. The curriculum offers an in-depth treatment of differentiation and integration of algebraic and transcendental functions and their application.

AP Calculus BC  
1 Cr. Gr. 12

This course offers an extension of the topics taught in AP Calculus AB as well as techniques of integration, tests for convergence and divergence of series, parametric equations, vectors, and polar coordinates.

### NAVAL JUNIOR RESERVE OFFICERS TRAINING CORP (NJROTC)

Naval Science I  
1 Cr. Gr. 9-12

This course introduces the student to the High School Naval Science curriculum, which emphasizes citizenship and basic leadership skills. Academic lessons include general citizenship topics, naval history and organization, marine geography, and personal motivation. The weekly class schedule consists of three days academic work, one day of military drill, and one day of physical training. This schedule is supplemented by field trips to various military activities, field meets with other NJROTC units, and a mini-boot camp. Leadership training is accomplished by both classroom work and practical application. There is no active duty military commitment, but there are benefits of two or more years of NJROTC if the student enlists after graduation or applies for a military scholarship. **Uniforms are paid for by the Navy, and required to be worn once a week.**

Naval Science II  
1 Cr. Gr. 10-12

Students participate in various unit and community activities, which continue to develop leadership skills. Academic lessons include the political and economic impact of the U.S. Navy and the history of the American nation; citizenship and patriotism; oceanography; and navigation. This course requires participation and accepting leadership assignments in the NJROTC unit. The uniform requirement is the same as the requirement for NS I.

Naval Science III  
1 Cr. Gr. 11-12

This course builds on lessons learned in NS II and emphasizes practical leadership training. Academic lessons include military law, astronomy, meteorology, sea power, and naval history. This course requires participation and accepting leadership assignments in the NJROTC unit.

Naval Science IV  
1 Cr. Gr. 12

This course applies leadership principles by requiring that students complete mandatory staff assignment and aide in the instruction of NS I and NS II classes. The academic material consists of selected readings and discussion of pertinent leadership topics. The uniform requirement is the same as Naval Science I, II and III.

Lead Techniques  
1 Cr. Gr. 9-12

This course continues the leadership training started in NS I, NS II, NS III, and NS IV.

## PERFORMING AND FINE ARTS

\*\*The fees involved in these courses are required since students will craft projects to take home.

### Draw I

½ Cr. Gr. 9-12

This course deals with competency in the use of many drawing materials, tools and techniques including line drawing and shading techniques. Students will be drawing primarily from observation. Art history and art criticism from Prehistoric to Renaissance to the Baroque periods will be covered.

**A lab fee is required.**

### Draw II

½ Cr. Gr. 9-12

Prerequisite: Draw I

This course is a continuation of Draw I. Students have the opportunity to deal with more challenging media, methods and subject matter with more emphasis on creativity and the expressive qualities of drawing.

**A lab fee is required.**

### Drawing/Painting I

1 Cr. Gr. 9-12

This course includes study of composition in drawing and painting and the history of art perceptive responses to formal and expressive qualities of art. Students will use such media as charcoal, acrylic, watercolor, pastels, and markers to produce works of various subjects.

**A lab fee is required.**

### 2-Dimensional Art Painting

½ Cr. Gr. 9-12

This course offers basic experience in drawing, painting, color and design. It includes the production of original, imaginative and inventive two-dimensional works, historical knowledge of painting, drawing, designs and the relationship of art to other processes and periods. Students will consider and use valid criteria to discuss and evaluate works produced in class.

**A lab fee is required.**

### 3- Dimensional Art/Sculpture

½ Cr. Gr. 9-12

This course offers an introduction to the art qualities found in functional sculptural form and the production of forms using such techniques as forming, carving, modeling, Design elements and compositional principals will be studied in historical prospective.

**A lab fee is required.**

### Ceramics/Pottery I

½ Cr. Gr. 9-12

The purpose of this course is to give students a basic understanding of ceramic processes including the composition and treatment of clay products, hand building techniques, use of clay bodies, glazes, tools, and techniques. Students will study vocabulary to relating ceramics and pottery and examine the qualities of finished products made by professionals.

**A lab fee is required.**

Creative Photography I  
½ Cr. Gr. 9-12

This course includes the study of production techniques of black and white photography, critical discussion of black and white photography processes, and criteria for judging photographs and justifying opinions about quality and craftsmanship of photographs. Students will be able to make judgments and critically analyze major photographers and personal works both verbally and in written form. Classroom time is spent studying digital and black and white photography processes and techniques along with darkroom time to create projects.  
**A lab fee is required.**

Creative Photography II  
½ Cr. Gr. 9-12  
Prerequisite: Creative Photo. I

This course includes the production of photographs with particular subject matter, lighting techniques, and variations of printing and mixed media. Students will be able to make judgments and critical analysis of major photographers as well as their own work. Formal critiques will be conducted to practice verbal and written analysis. Students will use proper presentation skills, increase the quality of their work.  
**A lab fee is required. Possession of a 35 mm SLR camera is advisable.**

**DRAMA**

Drama I  
1 Cr. Gr. 9-12

This course provides an in-depth experience in the study and practice of theater arts and dramatic literature. The content includes an overview of the history of the theater. Students are introduced to the fundamentals of play production, acting techniques, and improvisation.

Drama II  
1 Cr. Gr. 10-12  
Prerequisite: Drama I

This course provides practical experience in the technique of play production with emphasis on character development, articulation, projection and stage movement, instruction in aspects of technical theater.

Drama III and IV  
1 Cr. each Gr. 11-12  
Prerequisite: Drama I, II

These courses continues the drama experiences with more complex instruction in movement, vocalization and characterization. The coursework may include play production, dance, and theater makeup.

Stagecraft I  
1 Cr. Gr. 9-12  
Offered based upon instructor availability

Students will learn the basics of set construction and painting, sound and stage lighting. This may include the proper use of hand and power tools, as well as lighting instruments and stage equipment. Students will work on school productions, which will require after-school participation.

Stagecraft II  
1 Cr. Gr. 10-12  
Offered based upon instructor availability

Students will work on advanced techniques of set construction, sound and lighting, as well as work on all school productions, pep rallies, and activities in the Mandarin community. Participation in after school crew calls and performances is required.

## MUSIC

Chorus I, II & III  
Vocal tech I, II & III  
1 Cr. each Gr. 9-12  
Sequential enrollment

These courses are designed to develop the basic fundamentals of music. Designed for the beginning singer, an emphasis will be given to proper vocal production, breathing technique, ear training, and music theory. Music includes classical repertoire that will support proper singing techniques. A uniform will be purchased. Participation in performances is required.

Chorus IV, V & VI  
1 Cr. each Gr. 10-12  
Sequential Enrollment

These courses are designed to develop intermediate to advanced musicianship including proper vocal production, breath control, ear training and music theory. Music will include classical choral literature designed to advance the student's vocal development. Participation in performances is required.

Band I  
2 Cr. Gr. 9-12  
Sequential enrollment

This course is designed to teach students how to hold and maintain an instrument. Counting skills are emphasized. By the end of the course, students will be proficient at an introductory level and be able to read music. Participation in after-school practices and performances is required.

Band II  
2 Cr. Gr. 10-12  
Sequential Enrollment

This is a continuation of Band I. After-school practices and performances are required.

Band III & IV  
2 Cr. each Gr. 10-12  
Sequential Enrollment

This course is designed to teach the basic principles of musicianship. Skills are developed and refined in breath control, tone quality, blend, balance phrasing, phrasing, rhythm. Participation in after-school practices and performances is required.

Band V & VI  
2 Cr. each Gr. 11-12  
Sequential Enrollment

This course is designed for experienced players to expand their skills in music. An emphasis is placed on balance, blend rhythm articulation, and response to the baton. Band VI is designed to expand the musical achievement of experienced players with an emphasis on performance in a large group setting. The repertoire is selected from literature representing various periods and styles. Participation in after-school practices and performances required.

Music Appreciation  
1 Cr. Gr. 9-12  
Offered based upon instructor availability

Students will develop an understanding of American Music and how it has shaped our cultural identity. All of the student senses will combine to dissect the various styles of American music both past and present while pin-pointing the uniqueness of each genre.

Honors Chamber Ensemble

1 cr. Gr. 9-12

Prerequisite: Introductory courses

Chamber Ensemble will work on music of the highest level. Emphasis will be placed on performing music in small groups with independent musicianship. This course will be open to students who qualify for placement in the Wind Symphony and will also audition for Chamber Ensemble.

Dance Repertory I & II (Color Guard)

1 Cr. Gr. 9-12

Offered based upon instructor availability

The purpose of this course is to provide students with the opportunity to explore and develop techniques in ethnic dance and enhance creativity.

**Uniform parts must be purchased or rented.**

Dance Repertory III & IV (Color Guard)

1 Cr. Gr. 9-12

Offered based upon instructor availability

This is a continuation of Dance II. The class provides students with the opportunities to acquire knowledge and skill in two or more styles of dance.

**Uniform parts must be purchased or rented.**

AP Music Theory

1 Cr. Gr. 11-12

Prerequisite: 2 yrs band, chorus, or private inst.

Offered based upon instructor availability

This course covers work equivalent to first-year college coursework in music theory.

The goal is to develop the students' comprehension of the music fundamentals including oral, sight-singing, written, compositional, and analytical skills.

Guitar

1 Cr. Gr. 9-12

This one-year course is designed for students with no previous guitar experience. Students will receive guidance and direction in solving problems related to playing the guitar on a beginning level and will learn many of the different styles, skills and techniques required to become a successful guitarist. Areas of concentration include: correct posture, note reading, aural skills, flat picking, singing songs, rhythmic patterns, chord study, finger picking styles, musical forms, improvisation and performing experiences. Guitars are provided by the school for a use fee or the student may bring his own provided the guitar is an acoustic guitar. NO ELECTRIC guitars please.

**SPEECH**

Speech I

1/2 Cr. Gr. 9-12

This course focuses on the development of effective language delivery and organizational skills to enable students to express thoughts and feelings more effectively and confidently.

Speech II

1/2 Cr. Gr. 9-12

Prerequisite: Speech I

This course focuses on the intermediate skills of formal and informal communication.

## PHYSICAL EDUCATION

All physical education courses are offered based instructor availability.

### Personal Fitness/HOPE

1 Cr. Gr. 9-12

The completion of this course is required for graduation. The course provides students opportunities to develop an optimal level of physical fitness, and acquire knowledge of physical fitness concepts.

### Aerobics (Beginning/Intermediate)

½ Cr. Gr. 9-12

Offered based upon instructor availability

The purpose of these courses is to develop optimal levels of cardiovascular fitness and acquire knowledge of aerobic fitness and its effects on one's health.

### Fitness Issues for Adolescence

½ Cr. Gr. 9-12

The purpose of this course is to develop an understanding of physical fitness, consumer issues, and safety practices.

### Individual Dual Sports I, II, III

½ Cr. each Gr. 9-12

The purpose of these courses is to acquire knowledge of sports strategies, develop skills and improve personal fitness.

### Recreational Activities

½ Cr. Gr. 9-12

The purpose of this course is to demonstrate an understanding of social skills derived from participation in recreational activities.

### Team Sports I, II

½ Cr. Gr. 9-12

The purpose of these courses is acquire knowledge in selected team sports.

### Tennis (Beg., Interm., Advanced)

½ Cr. each Gr. 9-12

This course covers topics involved in the sport of tennis.

### Basketball

½ Cr. Gr. 9-12

This course covers topics involved in the sport of basketball.

### Weight Training (Beginning Intermediate & Advanced)

½ Cr. Gr. 9-12

The purpose of this course is to acquire basic knowledge and skills in weight training.

### Fitness Lifestyle Design

½ Cr. Gr. 9-12

The purpose of this course is to provide students with opportunities to acquire knowledge of physical fitness concepts.

### Comprehensive Fitness

½ Cr. Gr. 9-12

The purpose of this course is to acquire knowledge and concepts of fitness, establish a personal fitness program, and improve health related fitness.

### Volleyball (Beginning & Intermediate)

½ Cr. each Gr. 9-12

These courses are designed for students to acquire and develop knowledge and skills necessary for participation in the sport of volleyball.

### Swimming (Beginning & Intermediate)

½ Cr. each Gr. 9-12

Offered based upon instructor availability

These courses are designed for students to acquire and develop the knowledge and skills necessary for basic water safety.

### Softball

½ Cr. Gr. 9-12

This course is designed for students to acquire knowledge and fitness in softball.

Soccer

½ Cr. Gr. 9-12

This course covers topics involved in the sport of soccer.

Outdoor Education

½ Cr. Gr. 9-12

This course covers topics involved in sports

Care and Prevention of Athletic Injury

½ Cr. Gr. 9-12

Offered based upon instructor availability

This course covers a limited amount of medical training involving CPR, first aide training, nutrition, dietary supplements, and performance-enhancing drugs.

## SCIENCE

### Earth Space Science

1 Cr. Gr. 9-12

This course includes study of the formation of the universe and solar system, life cycle of stars, earth-moon system, space program and exploration, formation of rocks and minerals, divisions of the earth, landforms, formation of rivers and water systems erosion, wind glaciers, and oceanography.

### Earth Space Science Honors

1 Cr. Gr. 9-12

This course extends topics covered in standard Earth Space Science.

### Biology I

1 Cr. Gr. 9-12

This course develops an understanding of basic biological themes including the nature of science, the nature of matter, energy, and chemical properties of life, cells, biological reproduction, genetics principles, molecular basis, diversity, and biotechnologies levels of organization, classification and taxonomy, structures, functions, and reproduction of plants and animals, interdependence of organisms and the environment, and the technology of science.

### Biology I Honors/Pre-AICE Biology

1 Cr. Gr. 9-10

This course covers the themes listed for Biology I with an emphasis on the application of knowledge. Honors biology is designed for the mature student who is able to think critically and interrelate information from scientific investigations. The teachers will provide enrichment activities involving scientific inquiry.

### AP Biology/AICE Biology

1 Cr. Gr. 11-12

Prerequisite: Biology/Chemistry

Taken in conjunction with Bio II

This college level course covers biochemistry, cell biology, cellular energy, molecular genetics, principles of genetics, botany and ecology. College level laboratory activities are completed and modern technology is utilized as an integral part of the course.

### Chemistry I

1 Cr. Gr. 9-12

This course provides a foundation of knowledge and skills involving the structure, composition, and changes of materials. The students must be able to apply math concepts to chemical principles.

### Chemistry I Honors/Pre-AICE Chem

1 Cr. Gr. 10-12

This comprehensive course emphasizes the theory and quantitative aspects of chemistry including lab work. Applications of scientific knowledge to scientific investigation are included. Independent or group research is required.

### AP Chemistry/AICE Chemistry

1 Cr. Gr. 11-12

Prerequisite: Chemistry

conjunction with Chem II

This is an intensive and detailed college course that expands upon the concepts and skills presented in Chemistry I. The typical student will be co-registered for at least Analytical Geometry/Trigonometry.

Physics I Honors/Pre-AICE Physics  
1 Cr. Gr. 11-12

This course provides a comprehensive study of the motions of objects, energy, specific forces, waves, electricity, and other selected topics. A research project is required. Mathematics problem solving is used to gain a greater understanding of the concepts. Laboratory work is used to increase knowledge of the topics. This class should prepare students for university course work. This course meets the science requirement of 1 physical science credit.

Physics I  
1 Cr. Gr. 11-12

This course involves a basic study of motion of objects, energy, specific forces, waves, electricity and other selected topics. Some mathematics is used to understand the topics. Activities are used to aid understanding. This course meets the science requirement of 1 physical science credit.

AP Physics/AICE Physics  
1 Cr. Gr. 11-12  
Prerequisite: Physics I  
Taken in conjunction with Physics II

This is a college-level algebra based course which will prepare the student to take the Advanced Placement Physics B exam. It includes laboratory work and problem solving. Topics of study include waves, light, sound, motion of objects, electricity and magnetism and other selected topics. Independent problem solving is emphasized.

Ecology  
1 Cr. Gr. 11-12

The natural relationships between organisms and other factors comprising their environment is emphasized in this course. Topics include biotic and abiotic environments, food chains and webs, energy relationships, and endangered species.

Marine Science I  
1 Cr. Gr. 11-12

This course offers an introduction to marine science which covers the major divisions of the marine environment. The course focuses on the biology of the major marine invertebrates. Some dissection is included. Students participate in the Reef Ball Project. The course offers opportunities to participate in field trips.

Marine Science Honors I  
1 Cr. Gr. 11-12  
Offered based upon instructor availability

This course offers an in-depth look at the major marine environments and the major marine invertebrate phyla. Optional field trips are offered. Students participate in the Reef Ball Project.

Anatomy and Physiology Standard/Honors  
1 Cr. Gr. 11-12  
Offered based upon instructor availability

This course examines the structural and functional aspects of the human body systems. The curriculum provides knowledge and skills essential for careers in nursing, medical technology, and other related career fields. Dissection is required.

Forensics

1 Cr. Gr. 11-12

Offered based upon instructor availability

This course introduces students to the field of forensic science. The course reviews scientific principles in Biology, Chemistry and Physics combined with deductive logic process. This course will require the student to participate in group exercises. Research on the internet and various other media is expected.

AP Environmental Science

1 Cr. Gr. 11-12

Prerequisites: Biology

Offered based upon instructor availability

This course provides students with scientific principals, concepts and methodologies required to understand the chemical interrelationships of the natural world.

Zoology

1 Cr. Gr. 11-12

Prerequisite: Biology

Offered based upon instructor availability

This course studies the vertebrates and invertebrates of the animal kingdom. A focus is placed on the identification, classification, anatomy, behavior, ecology and economic significance of all the major groups of animals. Technology-driven teaching methods and dissections are used to provide visual and hands-on components.

**SOCIAL STUDIES**

American Government

½ Cr. Gr. 12

This course provides the opportunity to study state, national, and local government.

AP American Government

½ Cr. Gr. 11-12

This course is designed to give students a critical perspective on politics and government. This course involves both the study of general concepts used to interpret American politics and the analysis of specific case studies.

AP Comparative Politics

½ Cr. Gr. 11-12

Offered based upon instructor availability

This course is designed to help students gain knowledge of the world's diverse political structures and practices. This course encompasses the study of both specific countries and general concepts used to interpret the key political relationships found in all national politics.

AP Human Geography

1 Cr. Gr. 9

Human Geography is the study of patterns and processes of human activity on the Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences.

World History

1 Cr. Gr. 10

This course provides opportunities to investigate the chronological development of civilization from early beginnings to the present. Appreciation for diversity, knowledge, and cultures is emphasized.

AP World History  
1 Cr. Gr. 10-12

This college-level course includes an intensive multicultural course of study that concentrates heavily on student reading and writing. The scope of the course begins with 8000 B.C.E.

American History  
1 Cr. Gr. 11

The course offers a chronological and conceptual study of the United States with emphasis on post reconstruction to the present.

AP U.S. History  
1 Cr. Gr. 11-12

This College-level course involves a study of the United States from the Colonial period to the present. Extensive writing and analysis of events and issues is involved.

Economics  
½ Cr. Gr. 12

This course provides students with the opportunity to study basic economic questions and to investigate how major economic systems operate.

AP Micro Economics  
½ Cr. Gr. 12

This AP course provides students with the opportunity to acquire a comprehensive understanding of the way in which society organizes to utilize its limited resources to satisfy unlimited wants and the distinguishing characteristics of types of economic systems, with attention to the American mixed market system.

AP European History  
1 Cr. Gr. 11, 12  
Offered based upon instructor availability

This college-level course is based on an in-depth study of major themes in European history since 1450. The Class requires extensive writing and analysis of events and issues.

Law Studies  
½ Cr. Gr. 9-12  
Offered based upon instructor availability

This course provides opportunities to study the American legal process and provides practical information and problem solving opportunities to develop necessary knowledge and skills.

Psychology  
½ Cr. Gr. 11,12  
Offered based upon instructor availability

The course is designed to introduce the student to psychology as the science of human behavior and mental processes. An emphasis on biological and cognitive influences enables the students to critically examine their own behavior as well as the actions of other human beings.

Sociology  
½ Cr. Gr. 11,12  
Offered based upon instructor availability

This course is designed to introduce students to sociology as a social science dealing with the systematic study of groups and societies created by human beings. An emphasis is placed on the way these groups affect our behavior and will enable the students to better understand how social arrangements shape their lives as well as the lives of those around them.

AP Psychology

1 Cr. Gr. 11-12

This college-level course provides insights and explanations into peoples' actions, motivations, thoughts, and emotions.

World Religions

½ Cr. Gr. 9-12

Offered based upon instructor availability

This course provides opportunities to investigate the ways people in different cultures satisfy their spiritual needs.

## **INDUSTRIAL ARTS**

Introduction to Materials & Processes (Woodshop)  
1 Cr. Gr. 9-12

This course is an introduction to the basic skills and materials used in technology and instruction in the use of hand and power tools. Students construct a take-home project. Wood is the primary material used in this course. This course has a materials fee.

Intermediate Materials & Processes (Wood II)  
1 Cr. Gr. 10-12  
Prerequisite: Wood II

This course further develops skills, knowledge and attitudes using hands-on experiences with tools, machines and materials. Students construct a project of their choice. This course has a materials student fee.

Materials and Processes Ind. Study (Wood III)  
1 Cr. Gr. 10-12  
Prerequisite: Wood III

Individual development of advanced projects occurs in this course. This course has a materials fee.

Basic Principles of Graphic Communication  
1 Cr. Gr. 9-12

An introduction to the methods used by the printing industry is offered in this course. The curriculum includes screen-printing, offset printing, vinyl sign making and computer design in both single and multi-color on varied materials. This course may have a materials fee.

Intermediate Principles of Graphic Communication  
1 Cr. Gr. 10-12  
Prerequisite: Basic Prin. Of Graphics

This course provides students with an expanded study in the application of technical skills involved in the printing process. Student's concentrate on multi-projects operating the off-set press. This course may have a materials fee.

Advanced Principles of Graphic Communications  
1 Cr. Gr. 10-12  
Prerequisite: Intermediate Prin. of Graphics

This course provides students with advanced study and application of the technical skills of graphic communication through independent study. This course may have a materials fee.

## **TEST PREP**

Test Prep-Verbal  
½ Cr. Gr. 10-12

This course prepares students for verbal sections of college entrance exams including the PSAT, SAT, and ACT.

Test Prep-Math  
½ Cr. Gr. 10-12

This course prepares students for math sections of college entrance exams including the PSAT, SAT, and ACT.

## EXCEPTIONAL STUDENT EDUCATION

### Applied English I 1 Cr. Gr. 9

This course is designed to provide instruction in the acquisition of English language skills, writing skills, and provide exposure to various forms of literature.

### Applied English II 1 Cr. Gr. 10

This course is designed to provide instruction in English language skills, writing skills, and provide exposure to various forms of literature.

### Applied English III 1 Cr. Gr. 11

This course is designed to provide instruction in the application of English language skills necessary for successful performance in school and society. Included are writing, research, GED preparation, and reading strategies.

### Applied English IV 1 Cr. Gr. 12

This course is designed to provide instruction in the application of English language skills necessary for effective and productive living in society. The focus will be English for the world of work, and preparation for post secondary placement tests.

### Applied Math I 1 Cr. Gr. 9

This course is designed to provide instruction in basic math computation.

### Applied Math II 1 Cr. Gr. 10

This course is designed to provide instruction in advanced mathematical skills and problem solving. Pre-GED and TABE test skills, along with FCAT preparation is included.

### Applied Consumer Math 1 Cr. Gr. 11

This course is designed to provide mathematical skills to real-world consumer situations. This course will include banking, budgeting, and daily living skills

### Applied Vocational Math 1 Cr. Gr. 12

This course is designed to provide mathematical instruction relevant to vocational situations, including paying taxes, pay checks, and on-the-job skills.

### Applied Earth Space Science 1 Cr. Gr. 10

This course is designed to prepare a student to use the Scientific Method and to promote the study of rocks and things.

### Applied Biology 1 Cr. Gr. 11

This course is designed to provide general instruction in the fundamental concepts of life.

### Applied Health and Safety 1 Cr. Gr. 12

This course is designed to prepare a student to make decisions that will promote good health and safety.

### Applied American Government 1/2 Cr. Gr. 9

This course is designed to provide students the opportunity to acquire a basic understanding of the national state and local government and their rights and responsibilities as citizens.

Applied Consumer Economics  
1/2 Cr. Gr. 12

This course is designed to provide students with an understanding of appropriate consumer behavior, appropriate uses of income, the cost of living, and effective uses of the media.

Applied World History  
1 Cr. Gr. 10

This course is designed to cover topics in the history of countries.

Applied American History  
1 Cr. Gr. 11

This course is designed to provide a survey of the explorations and development of the United States.

ESE Career Experiences  
1 Cr. Gr. 11

This course is designed to enable students to gain employability skills in entry-level training sites through actual work experiences in or out of school.

ESE Career Placement  
1 Cr. Gr. 12

This program is designed to enable students to experience employment opportunities in a training environment.

Learning Strategies  
1 Cr. Gr. 9-12

This course is designed for ESE students pursuing a standard diploma. This course will enable students to acquire and use strategies to enhance the following skills: active listening, reading strategies, note-taking, test taking, writing, research and study skills.

## **PROMOTION REQUIREMENTS FOR HIGH SCHOOL**

### **Grade 9 to 10**

5 credits including 1 credit in English or mathematics

### **Grade 10 to 11**

12 credits including 2 credits in English and 2 credits in mathematics and/or science.

### **Grade 11 to 12**

Score a Level 2 or above on the FCAT Science SSS.

(Students who score a Level 1 on the FCAT Science SSS but who meet all other criteria for promotion from Grade 11 to Grade 12 will be eligible for promotion at the end of the first semester during the year following the administration of the FCAT Science SSS.)

18 credits including 3 credits in English and 4 credits in mathematics and/or science

Minimum cumulative grade point average on a 4.0 scale of 1.5. This average shall be referred to as the Graduation/State GPA and should not be confused with the Ranking/District GPA.

## **GRADING SCALE AND WEIGHTED SUBJECTS**

The following numerical grading scale is used in all Duval County Schools:

A=90-100    B=80-89    C=70-79    D=60-69    F= below 60

Honors Courses carry a weighted 5-point A. Standard courses carry a 4-point A.

GPA's for class rank are calculated by averaging all final grades in all courses taken after promotion from the ninth grade.

## **STATE OF FLORIDA GRADE FORGIVENESS POLICY**

Year 2000 and after Ninth Grade Entrants

- \* Applies ONLY when the 24, or 26 credits required for high school graduation have been earned but the GPA requirement has not been met
- \* Applies to students entering the ninth grade in 2000 and after
- \* Final grades of 'D' or 'F' can be replaced with a grade of 'C' or higher earned in the same or a comparable course.
- \* Final grades of 'C' or higher cannot be replaced.
- \* Any course grade not replaced shall be included in the calculation of the cumulative grade point average required for graduation.
- \* Out-of-state and/or private school credits shall be included in the cumulative GPA.

## **GRADUATION REQUIREMENTS**

High school graduation requirements are divided into three main categories: (1) FCAT requirements, (2) credit and course requirements, and (3) a grade point average requirement.

### **1. FCAT REQUIREMENTS**

The Florida Comprehensive Assessment Test is administered to ninth, tenth, and eleventh graders and has mathematics, reading, writing, and science sections. The FCAT mathematics and reading is mandatory for the class of 2003 and thereafter. FCAT writing is a requirement for students entering 9<sup>th</sup> grade in 2006-2007 and thereafter. A level 2 on the FCAT science is mandatory for promotion to the 12<sup>th</sup> grade beginning with the class of 2009. The writing section of the FCAT is administered in February and the reading, mathematics, and science sections in February and March of each school year.

Reading and Mathematics FCAT student scores are reported in three ways, that is, by achievement level, by scale score, and by developmental scale score. The scale scores, which range from 100 to 500 for each subject area and grade level, are divided into five categories, from 1 (lowest) to 5 (highest), called achievement levels.

The developmental scale score was introduced to track student progress over time and across grade levels. Student “growth” reports (started in 2002) include student scores reported as an achievement level, a scale score of 100 to 500, and as developmental scale scores. The FCAT developmental scores range from approximately 0 to 3000 across Grades 3-10 for FCAT Reading and Mathematics. By using FCAT developmental scores, parents can monitor their student’s academic progress from one grade to the next.

Students in Grade 10 must earn a scale score of 300 to pass the FCAT Reading, scale score of 300 to pass the FCAT Mathematics, and scale score of 300 to pass the science FCAT. Students take the FCAT Writing+ assessment in February and take the Reading, Mathematics, and Science FCAT in March. Students needing to retake the Grade 10 FCAT have that opportunity in October, March, and June. Parents should assist the students in logging on to [www.fcatexplorer.com](http://www.fcatexplorer.com) for help in preparing for these tests.

### **2. CREDIT REQUIREMENTS**

Please refer to the credit requirements on page 5.

### **3. GRADE POINT AVERAGE REQUIREMENTS**

Although GPA is not required for promotion to the 10<sup>th</sup> or 11<sup>th</sup> grade, a 1.5 or higher GPA is required for promotion to the 12<sup>th</sup> grade. Also, a student must have a cumulative unweighted GPA of 2.0 to receive a high school diploma.

## Alternatives to Traditional High School

Are you interested in dual enrollment at Florida State College of Jacksonville?

Answer these quick questions to see if you might be eligible:

1. Am I a junior or senior with a **3.0** cumulative unweighted GPA?
2. Have I passed the FCAT?
3. Have I taken the SAT or ACT college entrance examinations?
4. Do I have transportation?

If you answered “Yes” to all four questions, see your guidance counselor for a dual enrollment application.

Are you interested in early admissions to Florida State College of Jacksonville?

Answer these quick questions to see if you might be eligible:

1. Am I a senior with a 3.25 cumulative weighted GPA?
2. Have I passed the FCAT?
3. Have I taken the SAT or ACT college entrance examinations?
4. Do I have transportation?

If you answered “Yes” to all four questions, see your guidance counselor for an early admission application.

Florida Virtual School FAQs:

Can I take a course at FLVS while I’m enrolled at Mandarin?

Yes, but you cannot take the same class on FLVS that you are taking during the school day.

Are the classes self-paced?

Yes, but FLVS courses are set up to follow a regular school year with a full credit course scheduled to be completed in 36 weeks and a half-semester course in 18 weeks. To complete a course for one credit in 18 weeks plan to spend 2.5 hours daily on-line.

How do I register on-line and request a course?

1. Go to FLVS.net and sign up for a password and user ID.
2. Follow the directions on the website for requesting a course.
3. Print out the guardian approval form, and have your parent/guardian sign it.
4. Submit the guardian approval form to your guidance counselor, who will then give guidance approval.
5. A FLVS on-line teacher will contact you to enroll you in the class. You are only enrolled after teacher contact, and may be placed on a waiting list until there is an opening in the course you want.

## **Important Websites**

Mandarin Website: [www.mandarinhigh.org](http://www.mandarinhigh.org)

Duval County Website: [www.duvalschools.org](http://www.duvalschools.org)

Florida's Online Advising: [www.facts.org](http://www.facts.org)

FCAT help: [www.fcatexplorer.com](http://www.fcatexplorer.com)

ACT College Planning: [www.ACT.org](http://www.ACT.org)

SAT College Planning: [www.collegeboard.com](http://www.collegeboard.com)

Financial Aid: [www.FloridaStudentFinancialAid.org](http://www.FloridaStudentFinancialAid.org)

Florida Virtual School: [www.flvs.net](http://www.flvs.net)

Florida Colleges: [www.\[uf,fsu,unf,etc\].edu](http://www.[uf,fsu,unf,etc].edu)

Teacher's email: [last name first initial of first name]@duvalschools.org