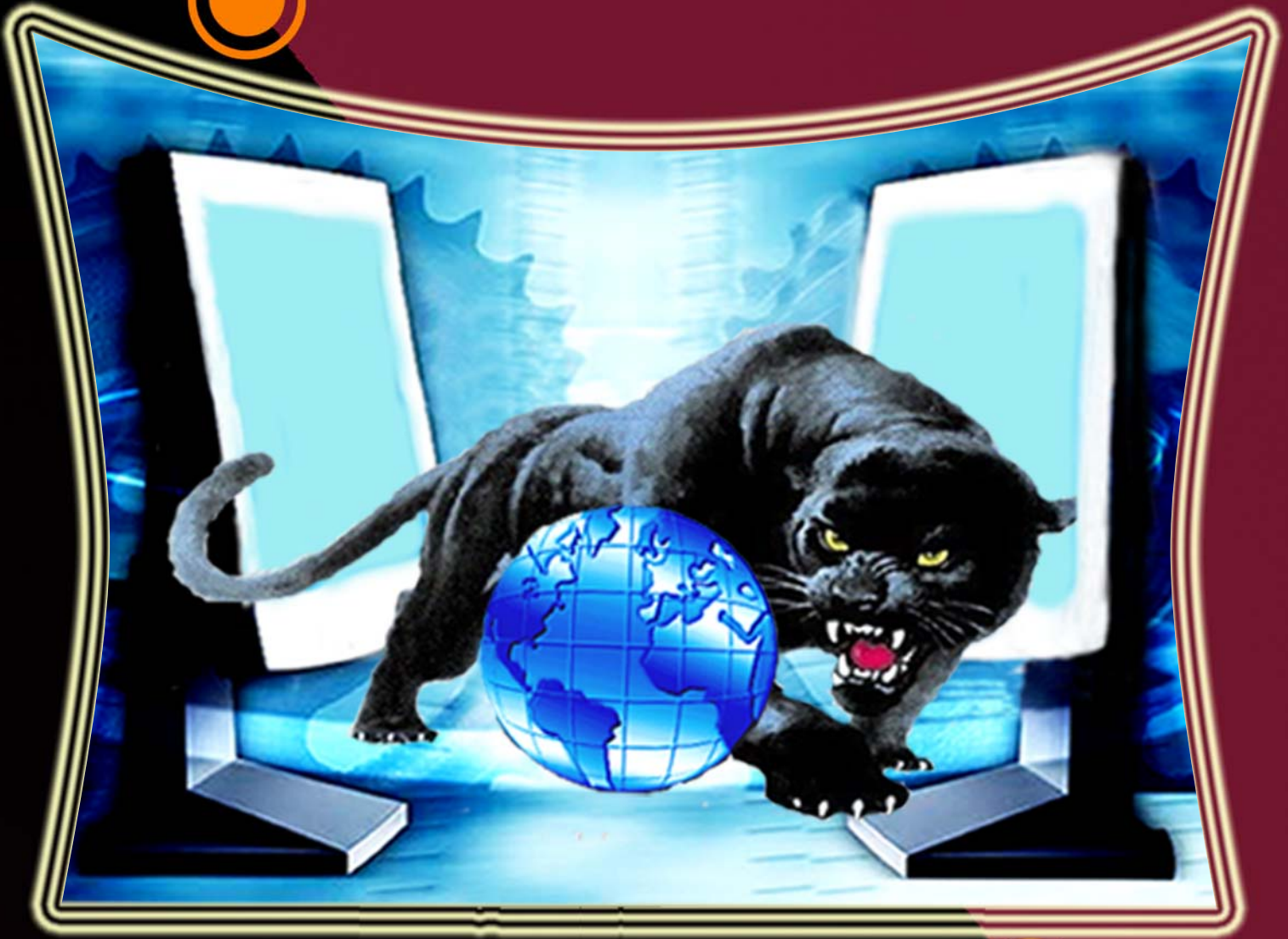


Crooms Academy of Information Technology

**2200 West 13th Street
Sanford, FL 32771
(407) 320-5750**



**Curriculum
Guide
2011-2012**

WELCOME TO CROOMS ACADEMY OF INFORMATION TECHNOLOGY

WHERE WE ARE RICH IN TRADITION, PRIDE, AND VISION

Vision Statement: To build a culture of excellence and success for every student.

Mission Statement: The mission of Crooms Academy of Information Technology is to provide innovative teaching and learning in a technology-enriched environment and to engage students in an academically challenging curriculum that prepares them for post-secondary education with industry-validated technology skills.

ADMINISTRATIVE / GUIDANCE STAFF

Dr. Connie Collins, Principal

Mrs. Daphne Velez-Cortes, Guidance Counselor

Ms. Demetria Hayes, Assistant Principal

Mrs. Cindy Dawson, Guidance Counselor

Mrs. Debra Abbott, Assistant Principal

TABLE OF CONTENTS

Important Information	2
How Do I Register?	3
Districtwide Choices Program	4
Requirements for Graduation.....	7
Opportunities for Credit Retrieval.....	8
How do I Earn College Credit at Crooms?	9
Guidance Information.....	10
Bright Futures Scholarship	11
Course Descriptions: Fine Arts/Electives.....	12
Course Descriptions: Foreign Languages.....	13
Course Descriptions: Language Arts/Reading	14
Course Descriptions: Mathematics	17
Course Descriptions: Physical Education	20
Course Descriptions: Science.....	21
Course Descriptions: Social Studies	24
How Do I Earn IT Certifications at Crooms?.....	26
Technology Programs of Student.....	26
Course Descriptions: Technology	27
Index of Courses	33
Notes.....	35
Four Year Plan	36

IMPORTANT INFORMATION FOR STUDENTS AND PARENTS

SCHEDULING

Crooms AOIT operates on a modified, alternating block schedule with 7 periods. The block schedule is designed to allow for extended periods of time where teachers may direct students to work on labs, group projects or other extension activities. As part of their school day, students also participate in 20-minutes of silent sustained reading

FCAT PREP COURSEWORK

Based on Crooms' school improvement plan, students whose FCAT scores indicate they may not meet the FCAT graduation requirement will be automatically registered into an FCAT preparation class for one or two class periods, depending on FCAT and oral fluency scores. Passing the FCAT is a graduation requirement set by the state legislature, and Crooms AOIT intends to provide all students the opportunity to prepare appropriately for that requirement.

HIGHER LEVEL COURSE ENROLLMENT CRITERIA

Seminole County recognizes the benefits students derive from higher level course participation and the importance of fair and equitable standardized criteria for enrollment in higher level courses. Students may elect to enroll in higher level courses based on any one of the multiple criteria. Where applicable, prerequisite course completion is required. Multiple enrollment criteria include, but are not limited to, self-selection, teacher consultation, previous academic success, and standardized or state test scores.

FEE/DONATION NOTIFICATION

In an effort to provide educational enhancements to students beyond the curriculum routinely offered, donations in certain courses historically have been collected in Seminole County Public Schools on a voluntary contribution basis. Every encouragement is given to students and parents to assist Crooms Academy of Information Technology in continuing the practice of course embellishment that these donations make possible. While such assistance is a practical requirement to maintain current practices, no student shall be denied the opportunity either to take any course or to participate fully in all aspects of a course in which donations are sought. In such circumstances, please simply notify your child's teacher. Thank you for your understanding and commitment to excellence.

TECHNOLOGY USE IN EDUCATION

Seminole County Public Schools believes technology is a valuable educational tool. All classroom teachers use technology as an instructional tool. Some examples of such activities are: Use of the Internet to access encyclopedias, magazines, the district's media/library catalog, web sites for education projects, on-line district and state classes and to conduct research in preparation for a project or presentation.

Students are photographed or videotaped for the purposes of daily school news broadcasts and yearbooks. Photographs or videos of students are also placed on school/district web pages as a form of recognition for special achievements, activities, projects and as a motivation to be creative.

Student works are published on the Web (Internet) to share stories, poems, and other creative works with other students and the school community and to provide motivations for writing.

If you wish to have your student excluded from any of the preceding activities, exclusion (opt-out) forms are available on the district website and at your child's school.

How Do I REGISTER?

Registration information will be distributed by grade level. Students will have five days to complete and submit their registration forms. Recommended core courses will be provided so students can focus on selecting electives. Students who wish to change their recommended core courses must obtain signatures from their current teacher in that subject. Before selecting elective courses, all students should read this guide carefully to familiarize themselves with the information it contains. Signatures for elective courses are only required for courses where a prerequisite is required.

Incoming 9th grade students: Curriculum guides and registration forms will be distributed during the Registration night for incoming 9th graders on Tuesday, February 8th at 6:30 p.m.. Registration procedures and course selection information will be given at that time. Registration cards are due to the middle school guidance counselor on Friday, February 18th. **All information regarding courses and graduation requirements is subject to change, pending legislation and state mandates. Courses in this guide may be dropped if there is not sufficient enrollment for the course.*

Guidelines

1. Study the courses listed and consult with your classroom teachers over course selections.
2. Review the online curriculum guide and discuss your course selections with your parents/guardians.
3. Write down any questions you may have for your counselor and discuss those questions with your counselor at lunch during the week of January 24th through February 4th. Both counselors will be available in the cafeteria during both lunch periods on these dates to answer any registration or course selection questions.
4. Fill in personal information at the top of the registration form.
5. Review the recommended core courses already recommended to you. If you wish to change any core course, you must obtain a signature from your current teacher in that subject area.
6. List the electives you have selected.
7. Obtain teacher, student, and parent signatures.

SCHEDULE CHANGES

Students are expected to remain in a course for its duration. Schedule changes due to failure are not permitted. Courses may be dropped and/or added during the first 5 days of each semester if one of the following conditions is met:

1. The course to be added is needed for graduation this year.
2. Computer error.
3. You already have credit in this course.
4. You have failed to meet a prerequisite.
5. Teacher or administrative recommendation.

ADMINISTRATIVE CHANGES

Crooms reserves the right to change individual student schedules to comply with School Board and Department of Education policies. These changes may occur due to changes in the student population or faculty allocation. Changes will be made to balance classes and teacher loads and to maintain class size requirements. Every effort will be made not to disrupt the educational process when such changes become necessary.

REGISTRATION CALENDAR

Wed, Jan 19	Technology Curriculum Fair during both lunches for students.
Thurs, Jan 20	Advanced Placement Curriculum Fair during both lunches for students.
Mon–Thurs, Jan 24–27	Registration forms and curriculum guides are handed out to students grades 9-11.
Fri–Fri, Jan 28–Feb 4	Guidance counselors will be available during both lunches to answer any registration/course selection questions.
Fri, Feb 4	Students submit registration forms to their 7th period teachers.
Tues, Feb 8	New students Open House (6:30 p.m. in Cafetorium)
Fri, Feb 18	Middle School registration cards submitted to middle school counselors.

SEMINOLE COUNTY PUBLIC SCHOOLS DISTRICTWIDE HIGH SCHOOL *CHOICES*

Seminole County Public Schools provides students with educational opportunities that take them beyond traditional instructional experiences with high school choice options. Designed around specialized themes, these programs address the individual interests and abilities of students.

Acceptance into a magnet school/program is by application only. By signing the required program application, parents and students agree to commitment statements that include academic standards, attendance, conduct, and honor code. Eligibility requirements and the application process are described in detail on the Seminole County Public Schools Choices Web site at www.seminoleschoolchoices.com.

Student transfer options for the 2011-2012 school year are available on the Seminole County Public Schools Choices Web site at www.seminoleschoolchoices.com.

Magnet applications and transfer forms are available at all middle and high school guidance departments; the Choices Department at the Educational Support Center, 400 East Lake Mary Blvd., Sanford; and from www.seminoleschoolchoices.com.

The following information and program descriptions are to acquaint students and parents with the additional high school *choices* they can consider.

Magnet Schools and Programs Crooms Academy of Information Technology



Experience IT! Crooms Academy of Information Technology (AOIT) is Seminole County's only district-wide magnet high school. Crooms AOIT provides cutting edge innovation in teaching and learning through a technology-enriched environment. Students engage in a rigorous and relevant curriculum that prepares them for post-secondary education with industry-validated technology skills.

TRANSPORTATION: Transportation is provided to students living more than two miles from the school.

For further information, contact Demetria Hayes, Assistant Principal, 407-320-5702 or Cindy Dawson, Guidance Counselor, 407-320-5722.

Academy of Health Careers Seminole High School



The Academy of Health Careers offers a comprehensive rigorous academic program of college preparation and uniquely relevant curriculum for students who plan to pursue a career as a health care professional. The academic courses are combined with the opportunity to gain the initial “building blocks” of health care through Health Science education.

Hands-on learning opportunities enable students to preview various careers through job shadowing and clinical experiences in area hospitals, clinics, medical offices, emergency medical facilities, and veterinary health care sites.

TRANSPORTATION: Transportation is provided to students living more than two miles from the school.

For further information, contact Ms. Mickey Reynolds, Program Director, 407-320-5063 or Eugene Williams, Academy Guidance Counselor, 407-320-5064.

Institute for Engineering Lyman High School



The Institute for Engineering provides a highly creative, technology rich, college preparatory program. Students are exposed to a rigorous integrated curriculum infused with relevant industry innovations and technology. The world class program is designed for the student who would like to pursue a professional career in any area of engineering.

Students may choose to focus on any of the following five areas of concentration:

- Architectural Engineering and Design
- Aerospace Engineering
- Bioengineering
- Computer Modeling and Simulation
- Electrical Engineering

TRANSPORTATION: Transportation is provided to students living more than two miles from the school.

For further information, contact the Institute for Engineering Office, 407-746-2312 or Joannie Shalls, Guidance Counselor, 407-746-2142.

International Baccalaureate Diploma Program Seminole High School



The International Baccalaureate (IB) Diploma Program is an internationally recognized, rigorous pre-university course of study that incorporates an extensive liberal arts curriculum containing humanities, social studies, foreign language, math, and science. The IB program, affiliated with the International Baccalaureate Organization (IBO), is designed for highly motivated college-bound students seeking educational challenges. The curriculum is based on international standards and examinations that are evaluated by international educators.

TRANSPORTATION: Transportation is provided to students living more than two miles from the school.

For further information, contact Mary Cragar, Program Coordinator, 407-320-5223 or Mindi Craft, IB Guidance Counselor, 407-320-5224.

EXITING A CHOICE PROGRAM: Any student who exits a high school choice program will return to his/her zoned school, unless there is a Seminole County Public Schools approved transfer that allows the student to remain at the school where the choice program is located. In all years of participation in a magnet school/program, exits are not permitted during the school year.

Other Choice Options
Academy of Construction Technologies
All Seminole County High Schools
11th and 12th Grade Choice Option



Don't leave high school with just a diploma—leave with a JOB! The Academy of Construction Technologies (ACT) develops a well-trained workforce in the construction industry by integrating academics and a paid work-site experience when available. ACT offers students the opportunity to begin a career in high school in one of three areas—carpentry and cabinetmaking, electrical, and fire sprinkler system technology. Individual course numbers are listed under Career and Technical Education in this guide.

ELIGIBILITY: All Seminole County students entering 11th and 12th grade, with the necessary number of credits to be on track for graduation at the end of their senior year can apply for the program. A 2.0 GPA is required for admission to the carpentry program. Electrical and fire sprinkler system technology require a 2.5 GPA.

For further information, contact your high school guidance counselor or Joe Oldakowski, Program Specialist, Career and Technical Education, 407-320-0171.

Seminole County Virtual School



Seminole County Public Schools high school students may take courses via Seminole County Virtual School. Virtual classes provide flexible options to meet the demanding schedule of the 21st century student. Students may enroll fulltime and earn a regular high school diploma or concurrently (blending virtual with face-to-face courses) with their zoned schools as part of their school day. For more information and a list of available courses please visit www.scps.k12.fl.us/virtuelschool or call 407-871-7287.

For further information, call the Choices Department, 407-320-0576, or a contact person listed in the individual program descriptions.

CROOMS REQUIREMENTS FOR GRADUATION

TO GRADUATE, CROOMS STUDENTS MUST HAVE
26 CREDITS
PASSING SCORE ON THE FCAT AND
REQUIRED COMPETENCY TESTS
2.0 GRADE POINT AVERAGE
COMPLETION OF REQUIRED IT COURSES

SUBJECT	CREDITS
English	4
Science	4
Mathematics	4
Social Studies (World History, American History, American Government (0.5) & Economics (0.5))	3
Personal Fitness	0.5
Physical Education	0.5
Fine Arts (Courses that qualify as a fine art include Intro. to IT, Web 1–4, Digital Design 1–5, 2-D Graphics, Electronic Music, Chorus, Digital Video & Sound, Steel Band, and Game & Simulation Foundations)	1
Intro to IT (9th grade)	1
PC Support 1 or A+ (10th grade)	1

OPPORTUNITIES FOR ADDITIONAL CREDIT

Students may earn additional credit toward graduation through any of the following programs for which they are eligible:

- Credit by Examination** (Nov. & April)
- Summer School**—beginning in the summer after the successful completion of the 8th grade and each succeeding summer in high school.
- Students may be awarded high school credit in middle school for the following courses:**
 - Algebra I—the student must successfully complete and demonstrate mastery of the performance standards.
 - Geometry—the student must successfully complete and demonstrate mastery of the performance standards.
 - Spanish taught at the middle school or to be taught on the high school campus—The students must successfully complete the course and demonstrate mastery of the performance standards.
 - Biology—The students must successfully complete the course and demonstrate mastery of the performance standards.
- Early College / Dual Enrollment**
- Florida Virtual School**—Check: www.flvs.net

GRADE LEVEL CLASSIFICATIONS

9th Grade	A student who has been promoted from 8th grade
10th Grade	A student who has earned six (6) credits beyond the 8th grade
11th Grade	A student who has earned twelve (12) credits beyond the 8th grade
12th Grade	A student who has earned nineteen (19) credits beyond the 8th grade

DIPLOMAS AND CERTIFICATES OF COMPLETION

Standard Diploma: Awarded to students who have successfully completed the minimum number of academic credits and required courses prescribed by the state and local school board, passed the FCAT and earned the minimum GPA requirement.

Certification of Completion: Certificate awarded to students who have completed the minimum number of credits and all other requirements prescribed by the local school board but failed to pass the FCAT or meet the minimum GPA requirement.

FCAT/COMPETENCY TESTING REQUIREMENT

According to Florida law, students must meet all academic requirements in order to receive a standard high school diploma from a public school. This means that students must take required courses, earn the correct number of credits, maintain a passing grade point average, and pass the Reading and Mathematics Sunshine State Standards (SSS) portion of the Grade 10 FCAT. Students who meet these requirements, but do not pass the required Competency Tests, will receive a Certificate of Completion. Students who have taken the required Competency Tests and failed to pass either the math or reading sections do have the option of meeting the Competency Test with a concordant score on either SAT or ACT.

High School Testing/Graduation Requirements by 9th Grade Year of Entry (subject to state statute adjustment)		
9th grader in ...	2011–2012	2012–2013
Graduation Requirements	Grade 10 FCAT 2.0 Reading: Level 3; Algebra 1 EOC: Level 3; Geometry EOC 30% of Course Grade*; Biology EOC 30% of Course Grade*	Grade 10 FCAT 2.0; Reading: Level 3; Algebra 1 EOC: Level 3; Geometry EOC: Level 3; Biology EOC: Level 3

OPPORTUNITIES FOR CREDIT RETRIEVAL

STUDENT INCENTIVE PROGRAM

This incentive program allows students to improve their semester grades if they have performed poorly. Students who are eligible for the program must have earned a D or F for the first semester. By completing this program, students can raise their grade by one letter. Teachers outline what students must do to complete the program, and students must finish these requirements by the end of the 3rd quarter. Also, students must maintain good attendance and a C average during the 3rd quarter to be awarded the improved grade. For honor roll purposes, the original 2nd nine weeks grade will be used to determine who makes 2nd quarter honor roll.

SCPS SUMMER SCHOOL 2011 INFORMATION

- Summer School courses are offered to high school students by registration for remediation and limited acceleration contingent upon 25 or more students selecting the course.
- Summer school 2011 will be held at all high school sites. Crooms students should register for courses at their zoned high schools. Some courses will only be offered at designated schools to assure the potential of the course being offered (25 or more students).
- Summer school will operate on a four-day work schedule. No classes will be held on Fridays.
- Registration forms for summer school are available in April at all high school sites. Please ask for registration forms in your guidance office. Those wishing to enroll in driver education must submit a separate driver education application to their guidance office.
- Course offerings will be limited to remediation. Students wishing to take summer courses for acceleration should register for Florida Virtual High during April or May at www.flvs.net.
- **Students may not be absent from summer school.** Any student absent from summer school will be withdrawn and denied credit.

HIGH SCHOOL SCHEDULE		
Semester 1	June 14 - June 30	7:20 a.m. - 12:50 p.m.
Semester 2	July 5 - July 21	7:20 a.m. - 12:50 p.m.

FLORIDA VIRTUAL SCHOOL

Check www.flvs.net for more information.

How Do I Earn College Credit at Crooms?

	Advanced Placement	Dual Enrollment	Career Pathways
Entrance Requirements	Success in honors-level courses and pre-requisite coursework if applicable. Teacher recommendation is suggested.	2.0 gpa Completion of College Placement Test (CPT) Pre-requisites if applicable	None
How is Credit Earned?	By scoring a 3 or better on the AP Exam administered in May	Through successful completion of the course	Through successful completion of a sequence of courses and passing of the Career Pathways exam at end of the third course.
How does Credit Appear on Transcript?	As a 1 credit AP course weighted with the highest quality points.	As a .5 credit course on the high school transcript weighted with the highest quality points. As 3 hours of credit on the college transcript.	As a 1 credit course on the high school transcript. As 3 hours of credit on the college transcript.
Who Accepts College Credit?	All 2-year colleges and most 4-year colleges/universities.	All 2-year colleges and most 4-year colleges/universities	All 2-year colleges and most 4-year colleges/universities
Other Course Requirements	Students must maintain a C in coursework and pass a pre-test in order to sit for the exam.	Some courses are taught at Crooms by a Crooms instructor.^ Other courses are online courses taken at Crooms.# Two courses are taken on campus of SSC.+	Introduction to Information Technology is the first course in the sequence.
Courses Offered	AP Human Geography AP World History AP American History AP American Government AP Biology AP Chemistry AP Physics B AP English Language AP English Literature AP Calculus AB AP Computer Science A AP Spanish	^CISCO Network Fund. ^CISCO Router Fund. ^CISCO Adv. Router ^CISCO Proj. Router ^SQL ^Network Cabling ^Network Concepts ^Net Comp Main/Repair ^Web Programming 1 ^Web Programming 2 ^Web Publishing 1 ^Data Driven Websites ^Bitmap Graphics ^Intro to Digital Media ^Office Applications ^Adv. Office Applications #Principle Comp. Program #C# Programming # Advanced C# #Intro. to UNIX #Intro. to Internet. Security +Intro to IP Telephony +Intro to Wireless Tech.	(Tests administered in courses listed below) Business Computer Programming 2

*IN ALL OF THE ABOVE COURSES, STUDENTS WHO ENROLL MUST REMAIN UNTIL THE COMPLETION OF THE COURSE.

GUIDANCE INFORMATION

GRADE SCALE

The following is the grading system for Seminole County Schools:

Letter	Percentage	Point
A	90-100	3.6-4.0
B	80-89	2.6-3.5
C	70-79	1.6-2.5
D	60-69	.75-1.5
F	Below 60	Below .75

GRADE POINT AVERAGE CALCULATION

Cumulative Grade Point Average (GPA) is based on final grades and determined by dividing the total number of courses attempted into the total number of quality points earned. Any other course for which no letter grade is given, is not included.

Students have a Florida GPA which is unweighted and a weighted District GPA which is calculated using different weights for various grades.

Honors, Gifted, Dual Enrollment and Advanced Placement courses weight grades of C or better. The chart below indicates the quality points each grade carriers for both types of GPA.

Letter Grade	Quality Points	Quality Points	Quality Points
	Unweighted	Honors	Dual & AP
A	4	4.5	5
B	3	3.5	4
C	2	2.5	3
D	1	1	1
F	0	0	0

RECOGNITION OF ACADEMIC EXCELLENCE

Honor Roll, Dean's List, and Principal's List are open to all students. These lists are prepared as follows:

1. Grade point averages are weighted and include all courses for which a letter grade is given.
2. Students carrying at least three on campus courses are eligible.
3. Any grade lower than a "C" automatically disqualifies a student.
4. The minimum GPA for Honor Roll is 3.0, for the Dean's List is 3.5, and for the Principal's List is 3.83. These averages are not rounded off; that is a GPA of 2.99, 3.49, and 3.79 respectively are not sufficient.



SCHOLARS WITH DISTINCTION

Students entering 9th grade in 2010-11 and thereafter who meet the advanced requirements listed below, in addition to meeting all requirements for a Seminole County Public High School Diploma, will be designated a Scholar with Distinction.

- Cumulative weighted 3.75 gpa
- Completion of 3 years in same World Language (three consecutive levels) AND
- Completion of 6 credits in Advanced Placement or International Baccalaureate classes with "A" and "B" grades (up to two "A" and "B" credits earned in Dual Enrollment may be applied to this requirement) AND
- Completion of 1 credit in Experimental Research (or equivalent) with an "A" or "B."

FLORIDA'S BRIGHT FUTURES SCHOLARSHIP PROGRAM

	Florida Academic Scholars Award	Florida Medallion Scholars Award	Florida Gold Seal Vocational Scholars
2010-2011 Award Amounts	4 Year/Semester Hour Award - \$125.00	4 Year/Semester Hour Award - \$94.00	4 Year/Semester Hour Award - \$94.00
	2 Year/Semester Hour Award - \$77.00	2 Year/Semester Hour Award - \$58.00	2 Year/Semester Hour Award - \$58.00
Weighted GPA	3.5	3.0	3.0
Opportunities for Additional Credit Required Credits	4 English	4 English	4 English
	3 Mathematics	3 Mathematics	3 Mathematics
	3 Science	3 Science	3 Science
	3 Social Science	3 Social Science	3 Social Science
	2 Foreign Language	2 Foreign Language	1 Practical Art
			1 Physical Education
			3 sequential technology classes
Community Service	75 Hours	N/A	N/A
Test Scores	Class of 2012 SAT = 1270 or ACT = 28	Class of 2012 SAT = 980 or ACT = 21	CPT Scores Reading 83 Sentence 83 Algebra 72 or
	Class of 2013 SAT = 1280 or ACT = 28	Class of 2013 SAT = 1020 or ACT = 22	ACT Scores Reading 18 English 17 Math 19 or
	Class of 2014 SAT = 1290 or ACT = 29	Class of 2014 SAT = 1050 or ACT = 23	SAT Scores Verbal 440 Math 440

In order to be eligible for an initial award from any of the three types of scholarships under the Florida Bright Futures Scholarship Program, a student must:

- Be a Florida resident
- Earn a standard Florida high school diploma
- Be accepted by and enrolled in an eligible Florida public or independent postsecondary education institution.
- Be enrolled for at least 6 semester credit hours or the equivalent in quarter hours or clock hours.
- Not have been found guilty of, or entered a plea of no contest to, a felony charge.

Guidance counselors will assist all seniors with applying for a Bright futures scholarship.

COURSE DESCRIPTIONS: FINE ARTS/ELECTIVES

Chorus I 1303300

Prerequisite: None

1 Credit

Grades 9-12

The purpose of this course is to enable students to develop basic individual and ensemble skills in choral performance through preparation of varied high school literature. Emphasis will be placed on healthy and expressive singing, accurate interpretation of notation, and development of critical and aesthetic response to music.

Chorus II 1303310

Prerequisite: Chorus I

1 Credit

Grades 10-12

The purpose of this course is to enable students to develop intermediate-level individual and ensemble skills in choral performance through preparation of varied high school literature. Emphasis will be placed on healthy and expressive singing, accurate interpretation of notation, and development of critical and aesthetic response to music.

Electronic Music I 1304300

Prerequisite: None

1 Credit

Grades 9-12

This course is designed to introduce students to the fundamentals of music technology, composition, and theory. No prior musical experience is necessary. The class uses MIDI and recording technology as well as digital notation and sequencing software to assist students in the understanding and creation of musical compositions that range from 16th century counterpoint to today's popular dance music.

Electronic Music II 1304310

Prerequisite: Electronic Music I

1 Credit

Grades 10-12

This is an advanced course in which students continue expanding upon their musical knowledge. Students may choose to specialize in traditional composition (scoring and arranging for traditional instruments) or electronic music manipulation (recording technology, mixing and mastering).

Electronic Music III 1304320

Prerequisite: Electronic Music II

1 Credit

Grade 11-12

This is an advanced course in which students continue expanding upon the musical knowledge developed in Electronic Music II. Students may choose to specialize in traditional composition (scoring and arranging for traditional instruments) or electronic music manipulation (recording technology, mixing and mastering).



Steel Band Class 1302420

1 Credit

Grade 9-12

Students will develop basic performance skills on selected percussion instruments in small ensemble and solo settings using a varied repertoire of musical literature. Performance techniques, music knowledge, critical analysis, and aesthetic response will be emphasized.

Leadership 2400300

Prerequisite: None

1 Credit

Grades 10-12

Leadership is comprised of students who hold leadership positions on campus. Priority is given to student government and senior class officers, then other club or organization officers, publications, editors, etc.. The class is project-focused and offers students the opportunity to learn about leadership styles and techniques, group dynamics, and team building. Students participate in and lead a variety of school and community activities.

COURSE DESCRIPTIONS: FOREIGN LANGUAGES

Chinese I 0711300

Prerequisite: None

1 Credit

Grades 9-12

This introductory course is for students with little or no prior knowledge of the language. Students are exposed to a variety of authentic materials and a text rich in culture and literature. They will develop listening and speaking skills through conversation. Reading and writing skills will also be emphasized.

Chinese II 0711310

Prerequisite: Chinese I

1 Credit

Grades 10-12

Students will continue to expand their vocabulary in learning Simplified Chinese characters using the Pinyin phonetic symbols. Emphasis will be placed on grammatical rules in sentence structures. Students will practice daily spoken Chinese continue developing skills in listening, speaking, reading and writing. Chinese culture will also be addressed

Chinese III 0711320

Prerequisite: Chinese II

1 Credit

Grades 11-12

This course will enhance proficiency in Chinese through a linguistic, communicative, and cultural approach to language learning. The development of listening, speaking, reading, and writing skills, and cross cultural understanding and real life applications will be emphasized.

Chinese IV 0711330

Prerequisite: Chinese III

1 Credit

Grade 12

See above description.

Spanish I 0708340

Prerequisite: None

1 Credit

Grades 9-12

This introductory course is for students with little or no prior knowledge of Spanish. Students are exposed to authentic materials and text rich in culture and literature. They will develop listening and speaking skills through conversation. The present tense of reading and writing skills will be emphasized.

Spanish II 0708350

Prerequisite: Spanish I

1 Credit

Grades 9-12

This course emphasizes reading and writing at the intermediate level, with a focus on the past tenses. Students will continue to develop their speaking and listening skills as well. Structures taught in Spanish I will be reviewed prior to the presentation of new material. Students will gain a better understanding of various aspects of the Hispanic culture.

Spanish III Honors 0708360

Prerequisite: Spanish II

1 Credit

Grades 10-12

This course focuses on everyday communication and prepares the students to speak and write appropriately in the language, in a variety of situations. Listening, speaking, reading, and writing skills at the advanced level are learned and applied through the study of literature from Spain and Latin America. The course offers further insights into the Hispanic culture.

Spanish IV Honors 0708370

Prerequisite: Spanish III

1 Credit

Grades 11-12

This independent study course will continue the mastery of the language skills acquired from Spanish III. It is designed for highly motivated students who want to continue their studies in Spanish. Students who want to study another year of Spanish before going to Spanish AP are encouraged to take this course.

Spanish Language AP 0708400

Prerequisite: Spanish III

1 Credit

Grade 12

This course involves intensive practice of the language skills needed to master the AP Spanish Language exam. A strong emphasis is placed on impromptu conversation and writing, including essays. Listening and reading comprehension at the advanced level are also a part of the curriculum.

COURSE DESCRIPTIONS: LANGUAGE ARTS/READING

English I 1001310

1 Credit

Grade 9

This course provides instruction in the fundamentals of grammar, writing and vocabulary, and literature (including nonfiction), poetry, and drama. Reading and writing strategies are based on FCAT power benchmarks as assessed on the 9th grade FCAT reading test. These strategies will be used to enhance higher level thinking skills. ** All students testing below grade level (levels 1&2) on the 8th and 9th grade FCAT Read will also be placed in an Intensive Reading class.

English I Honors 1001320

1 Credit

Grade 9

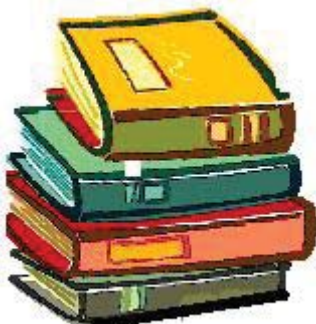
This course provides advanced instruction in the fundamentals of grammar, writing and vocabulary, and literature (including nonfiction), poetry, and drama. Reading and writing strategies are based on FCAT power benchmarks as assessed on the 9th grade FCAT reading test. These strategies will be used to enhance higher level thinking skills. Students in this course should expect outside reading and writing assignments.

English II 1001340

1 Credit

Grade 10

This course continues to incorporate reading and writing skills developed in English 1. Students will be exposed to world literature through various projects, papers, presentations, and readings. Emphasis will be placed on literatures of various cultures (fiction and nonfiction) as well as a variety of genres. Additionally, students will complete intensive practice activities reinforcing power benchmarks needed to succeed on the FCAT Writes exam (given in February) and FCAT Reads (given in March). ** All students testing below grade level (levels 1&2) on the 9th and 10th grade FCAT Read will also be placed in an Intensive Reading class.



English II Honors 1001350

1 Credit

Grade 10

This course continues to incorporate higher level reading and writing skills developed in English 1. Students will be exposed to world literature through various projects, papers, presentations, and readings. Emphasis will be placed on literatures of various cultures (fiction and nonfiction) as well as a variety of genres. Additionally, students will complete intensive practice activities reinforcing power benchmarks needed to succeed on the FCAT Writes exam (given in March) and FCAT Reads. Students in this course can expect outside reading and writing

English III 1001370

1 Credit

Grade 11

This course continues to incorporate higher level reading skills through a survey of American literature. Writing exercises become more extensive with emphasis on multi-paragraph essays as well as documented papers, position papers, and research papers. SAT and college preparation become more focused. ** All students testing below grade level (levels 1&2) on the 9th and 10th grade FCAT Read will also be placed in an Intensive Reading class.

English III Honors 1001380

1 Credit

Grade 11

This course continues to incorporate higher level reading skills through a survey of American literature. Writing exercises become more extensive with emphasis on multi-paragraph essays as well as documented papers, position papers, and research papers. SAT and college preparation become more focused. Students in this course can expect outside reading and writing.

English IV 1001400

1 Credit

Grade 12

In this course the primary emphasis on writing is critical analysis of literature and refining composition skills. Writing assignments include an extensive research paper that pairs with the Professional Portfolio. Additional writing projects include the college essay as well as extensive SAT practice. The literature is a survey in British literature and the course prepares students for college programs.

COURSE DESCRIPTIONS: LANGUAGE ARTS/READING

English IV Honors 1001410

1 Credit

Grade 12

In this course the primary emphasis on writing is critical analysis of literature and refining composition skills. Writing assignments include an extensive research paper that pairs with the student's professional portfolio. Additional writing projects include the college essay as well as extensive SAT practice. The literature is a survey in British literature and the course prepares students for college programs. Students in this course can expect outside reading and writing.

AP English Language & Composition 1001420

1 Credit

Grade 11

The purpose of this course is to provide students with an understanding of the semantic, structural, and rhetorical aspects of the English language. The course is designed to develop flexible writers who are able to write in various modes for a variety of purposes. Based on the results of the Advanced Placement exam, college credit may be awarded by participating colleges and universities.

AP English Literature & Composition 1001430

1 Credit

Grade 12

Students study and discuss great works of literature from various genres and periods. Designed to develop the students' understanding of style, subject, and audience, frequent reading and writing assignments focus on the critical analysis of literature. Based on the results of the Advanced Placement exam, college credit may be awarded by participating colleges and universities.

9th Grade Intensive Reading 1000410

2 credits

Grade 9

This DIRECT INSTRUCTION course is a double block created for students who are not fluent readers and need an intense level of additional support on reading skills necessary to pass the FCAT. Using SRA Reach, Rewards, Impact, and Reasoning and Writing materials, the class provides direct instruction in decoding, word analysis, fluency, systematic vocabulary development, and reading comprehension. The Reading Plus program provides a computerized supplement for independent practice. Placement is based on previous FCAT level and individual fluency assessment.

SOAR I 1000400

1 credit

Grade 9

This SOAR I course is a single block created for fluent students who need a less intense level of support of literacy skills necessary to pass the FCAT. The course uses thematic text sets in a literature circle format to develop and build literacy strategies and comprehension and writing skills. Students work on vocabulary and critical thinking skills while reading both fiction and non-fiction material. The Reading Plus program provides a computerized supplement for independent practice. Placement is based on previous FCAT level and individual fluency assessment.

10th Grade Intensive Reading

2 credits

1000410

Grade 10

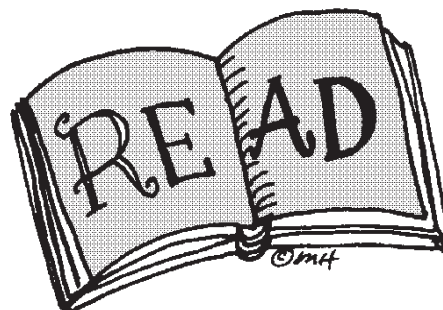
This Scholastic READ 180 program is a double block created for students who are not yet fluent readers and need additional support on reading skills necessary to pass the FCAT. The course utilizes whole group and small group individualized instruction, as well as independent learning opportunities through computer assisted instruction, audio books and independent reading. The READ180 program is wide-ranging; building fluency, vocabulary and comprehension. Placement is based on previous FCAT level and individual fluency assessment.

SOAR II 1000400

1 credit

Grade 10

This SOAR II course is a single block created for fluent students who need a less intense level of additional support on literacy skills necessary to pass the FCAT. The course uses thematic text sets in a literature circle format to develop and build literacy strategies and comprehension and writing skills. Students work on vocabulary and critical thinking skills while reading both fiction and non-fiction material. The Reading Plus software program provides a computerized supplement for independent practice. Placement is based on previous FCAT level and individual fluency assessment.



COURSE DESCRIPTIONS: LANGUAGE ARTS/READING

SOAR III 1000400

1 credit

Grade 11

This SOAR III course is a single block created for fluent students who need a less intense level of additional support on literacy skills necessary to pass the FCAT. The course uses thematic text sets in a literature circle format to develop and build literacy strategies and comprehension skills. Students work on vocabulary and critical thinking skills while reading both fiction and non-fiction material. The Reading Plus software program provides a computerized supplement for independent practice. Placement is based on previous FCAT level and individual fluency assessment.

11th/12th Grade Intensive Reading 1000410

2 credits

Grade 11th/12th

This course is a double block created for students who are not fluent readers and need an intense level of additional support on reading skills necessary to pass the FCAT. At the beginning the class uses Rewards materials for decoding and fluency building. In addition, the class uses a variety of fiction and non-fiction, including USA Today magazine and Impact to provide practice with vocabulary, reading comprehension, and test taking skills. The Reading Plus software program provides a computerized supplement for independent practice. Placement is based on previous FCAT levels and individual fluency assessment.

Advanced Reading Honors 1001480

1 credit

Grade 9

This honors level course is designed for proficient 9th grade readers. The purpose of this course is to enable students to refine communication, critical-thinking and study skills important for success in higher level coursework and post secondary education. Students will develop the skills and confidence to analyze and respond critically, both orally and in writing, to a range of literary, informational, and technical texts. Students will become more confident, independent readers, thinkers and learners through success in this course.

Advanced Reading Honors 1008320/1004300

1 credit

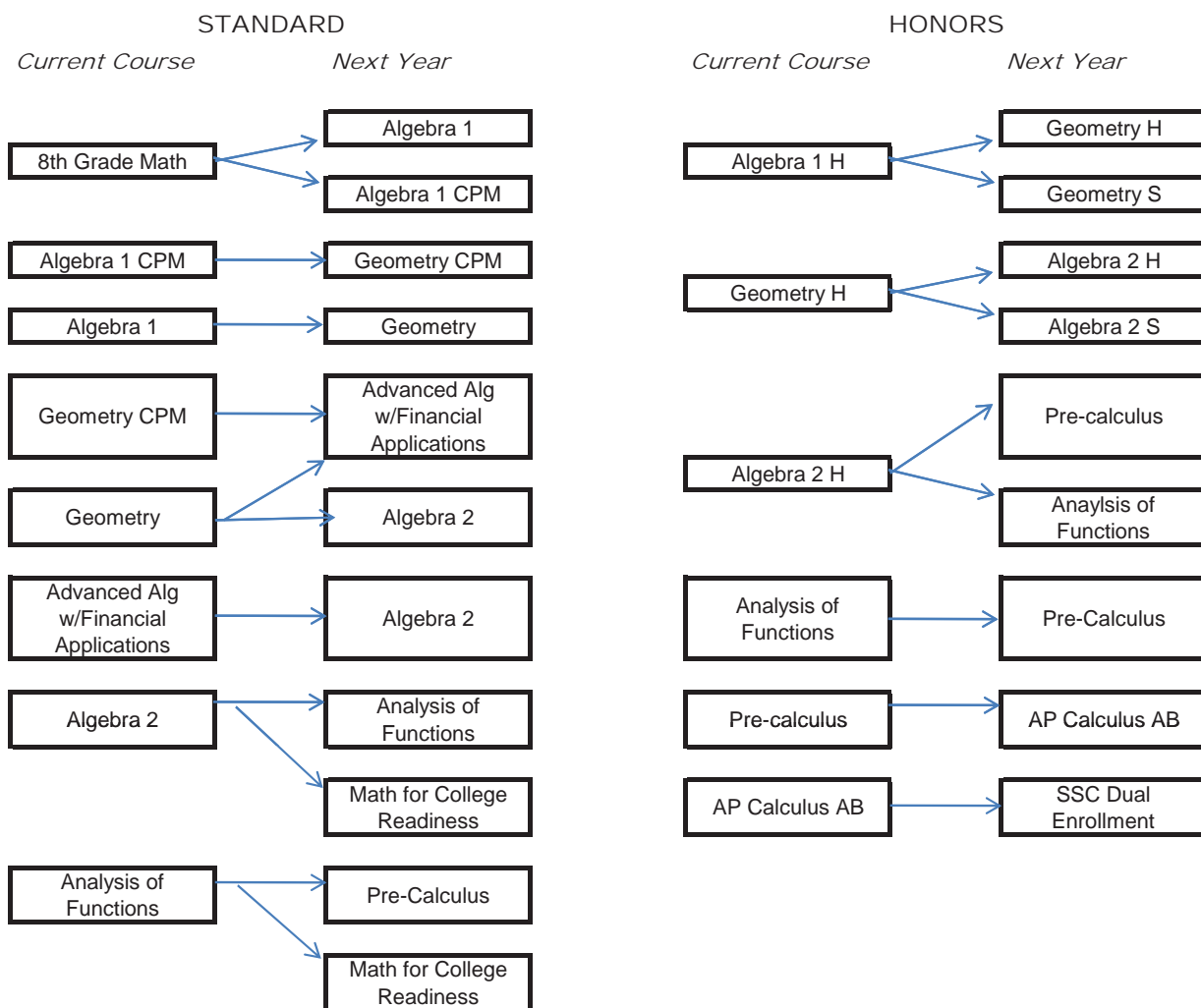
Grade 10

The purpose of this course is to enable 10th grade students who are proficient readers to refine communication, critical-thinking and study skills important for success in higher level coursework and post secondary education. Students will learn and apply the principles of semantics and logic to construct meaning of text. Students will develop the skills and confidence to analyze and respond critically, both orally and in writing, to a range of literary, informational, and technical texts.



COURSE DESCRIPTIONS: MATHEMATICS

MATH DEPARTMENT PROGRESSION PLAN 2011 - 2012



Enrollment in Algebra 1 CPM and Geometry CPM will be determined by FCAT Math scores.

Students who are non-proficient in math will be enrolled in Intensive Math in addition to their math course.

Math for College Readiness is for SENIORS ONLY. Students will be placed in this course based on their CPT scores.

The following courses are designed for students who need additional instruction in FCAT math skills. They should be taken in conjunction with another math class.

Intensive Math I 1200400

Prerequisite: None

1 Credit

Grades 9-10

The purpose of this course is to enable students to develop mathematics skills and concepts through remedial instruction and practice. The content includes critical thinking, problem solving, and test taking skills and strategies.

Intensive Math II 1200400

Prerequisite: none

1 Credit

Grades 11-12

This course is a continuation of Intensive Math I, allowing for remedial instruction in mathematics skills and concepts through critical thinking, problem solving, and test taking skills and strategies.

COURSE DESCRIPTIONS: MATHEMATICS

Algebra I 1200310

Prerequisite: None

1 Credit

Grades 9-12

This course is designed to provide the foundation for future secondary mathematics courses and develop skills needed to solve mathematical problems. Topics shall include, but are not limited to, functions, linear equations, and inequalities, systems of linear equation and inequalities, polynomials, operations with radical expressions, solving quadratic equations, and ratio and proportions. Algebra I or its equivalent is required for high school graduation.

Algebra I Honors 1200320

Prerequisite: None

1 Credit

Grades 9-12

This course includes a rigorous, in-depth study of all the topics included in Algebra I as well as absolute value equations and inequalities, operations with rational expressions, solving rational equations and characteristics of quadratic graphs.

Geometry 1206310

Prerequisite: Algebra I

1 Credit

Grades 9-12

Critical thinking as well as practical applications of geometric skills and concepts in the real world are covered. Topics include, but not limited to, logic and reasoning, proofs, the study of Euclidean geometry of lines, planes, angles, triangles, similarity, congruence, geometric inequalities, polygons and circles, area and volume, and constructions.

Geometry Honors 1206320

**Prerequisite: Algebra I Honors
(or teacher recommendation)**

1 Credit

Grades 9-12

This course includes a rigorous, in-depth study of all of the Geometry topics as well as, but not limited to, truth tables, vectors, Fibonacci sequence, coordinate geometry proofs involving circles and problems involving cross sections of solids.

Algebra II 1200330

Prerequisite: Geometry Honors

1 Credit

Grades 9-12

This course is designed to continue the study of the structure of Algebra by providing the foundations for applying these skills to other math and science fields. Topics include, but are not limited to, complex numbers, absolute value equations, linear equations and inequalities, functions and their inverses, systems of linear equations and inequalities, polynomials, rational expressions and equations, radical expressions and equations, quadratic equations, exponential and logarithmic functions and sequences and series.

Algebra II Honors 1200340

**Prerequisite: Geometry
(or teacher recommendation)**

1 Credit

Grades 9-12

This course includes a rigorous, in-depth study of all the Algebra II topics except rational expressions and equations, absolute value equations and inequalities, all of which were previously studied in Algebra I Honors. Additional topics studied in this course include, but are not limited to, piecewise functions, binomial expansion theorem, discontinuities, asymptotic behavior in rational graphs, non-linear systems of equations, conic sections and partial sums of arithmetic and geometric series.

Advanced Algebra w/ Financial Applications 1200500

Prerequisite: Algebra I & Geometry

1 Credit

Grades 11-12

This course is designed to give students the knowledge and understanding that will enable them to make appropriate decisions in financial management. Topics include but are not limited to linear equations and inequalities, systems of linear equations, exponential growth and decay, simple & compound interest, future value, present value, finance charges, deferred payments, fees associated with a mortgage, balloon mortgage, points, personal budget, federal income tax, insurance options and fees, retirement plans, diversification in investments, stocks and bonds.

COURSE DESCRIPTIONS: MATHEMATICS

Analysis of Functions 1201310

Prerequisite: Algebra II

1 Credit

Grades 11-12

This course is designed for college bound students in preparation for College Algebra. Topics include, but are not limited to, an in-depth study of graphing, piece-wise functions, equation solving, word problems, polynomial functions, discontinuities, exponential and logarithmic functions, and trigonometric functions and their inverses.

Pre-Calculus Honors 1202340

Prerequisite: Algebra II

1 Credit

Grades 9-12

This course is designed to provide a foundation for the study of Calculus. Topics include, but are not limited to, an analysis of polynomial and trigonometric functions, Pythagorean and trigonometric identities, law of sines, law of cosines, sum and difference formulas, half angle and double angle formulas, conic sections, vectors, parametric equations, polar coordinates, finite and infinite sequences and series, and limits and continuity.

Calculus Honors 1202300

Prerequisite: Pre-Calculus

1 Credit

Grades 9-12

This course is designed to provide a foundation for the study of advanced mathematics. Topics include, but are not limited to, functions and graphs, limits, continuity, derivatives and integrals with applications, optimization, velocity, acceleration, rates of change, anti-derivatives, Riemann Sums, and the Fundamental Theorem of Calculus. Use of a graphing calculator is required.

Mathematics for College Readiness 1200700

Prerequisite: Algebra II

1 Credit

Grade 12

This course is designed to meet the needs of seniors who plan to attend college. Projects designed to help students research and apply to colleges, make a preliminary two-year course plan, and schedule first semester college classes will be incorporated throughout the year. Topics include, but not limited to, linear equations, quadratic equations, radical equations, polynomials, exponential equations, compound and simple interest, matrices, properties of exponents, solving systems of equations, and descriptive statistics. This course is supplemented with a graphing calculator. Students who qualify will be placed in this course based on the CPT (College Placement Test) scores taken at the end of their junior year.

AP Calculus AB 1202310

Prerequisite: Pre-Calculus

1 Credit

Grades 12

This course is intended for students who have a thorough knowledge of college preparatory mathematics. It is a course in introductory calculus with elementary (algebraic, trigonometric, exponential and logarithmic) functions. Topics include, but are not limited to functions and graphs, limits and continuity, derivatives and integrals, and their applications. This course is taught utilizing graphing calculators.



COURSE DESCRIPTIONS: PHYSICAL EDUCATION

WELLNESS & TECHNOLOGY

These courses integrate technology into the curriculum. Wellness education revolves around the total person's intellectual, physical, emotional, spiritual, and social fitness. Each person must develop his or her unique pathway to wellness. A key factor in achieving wellness is developing an integrated and balanced lifestyle. The curriculum for personal fitness and health life management skills provide students with multiple opportunities to understand the importance of health concepts and significance of lifestyle on one's health and fitness. Physical Education and Health are the only subjects which, by the very nature of their content have the potential to affect how a person will feel every moment of every day for the rest of his or her life.

Fitness Issues for Adolescents 1501310

Prerequisite: None

.5 Credit **Grades 10-12**

The purpose of this course is to enable students to extend their knowledge of fitness concepts and improve their fitness components. Students will learn about fitness issues facing adolescents. The course will utilize modern modes of fitness such as Dance-Dance Revolution, eye-toys, cycles, treadmills, weights, and physio-balls to engage students in fun, healthy activities. Students will learn to use heart rate monitors and pedometers. Students will also learn about nutrition and the importance of an active lifestyle.

Team Sports I 1503350

Prerequisite: None

.5 Credit **Grades 10-12**

This course focuses on the origin, development of fundamental skills, techniques, rules and terminology of selected team sports. Safety practices such as injury prevention through proper warm-up and cool-down procedures will be emphasized. Students will learn various fitness activities and exhibit an improved or maintained level of health related fitness. Students will describe and demonstrate strategies utilized in selected team sports.

Team Sports II 1503360

Prerequisite: Team Sports I

.5 Credit **Grades 10-12**

This course focuses on the development of fundamental and advanced skills, techniques, rules and terminology, and offensive and defensive strategies of selected team sports. It continues to cover topics taught in Team Sports I.

Personal Fitness 1501300

Prerequisite: None

.5 Credit **Grades 9-12**

The Personal Fitness curriculum focuses on students learning the benefits of an active lifestyle and how to become their own personal trainer. Students will learn how to train using their heart rate as a guide and measuring tool. Polar heart rate monitors, pedometers, FX Cycles (virtual workouts), treadmill, recumbent cycle, Kasier and universal weight training systems are utilized. Hands on software and hardware (Trifit) packages are utilized in this course. This course is required for graduation.

Recreational Activities 1502470

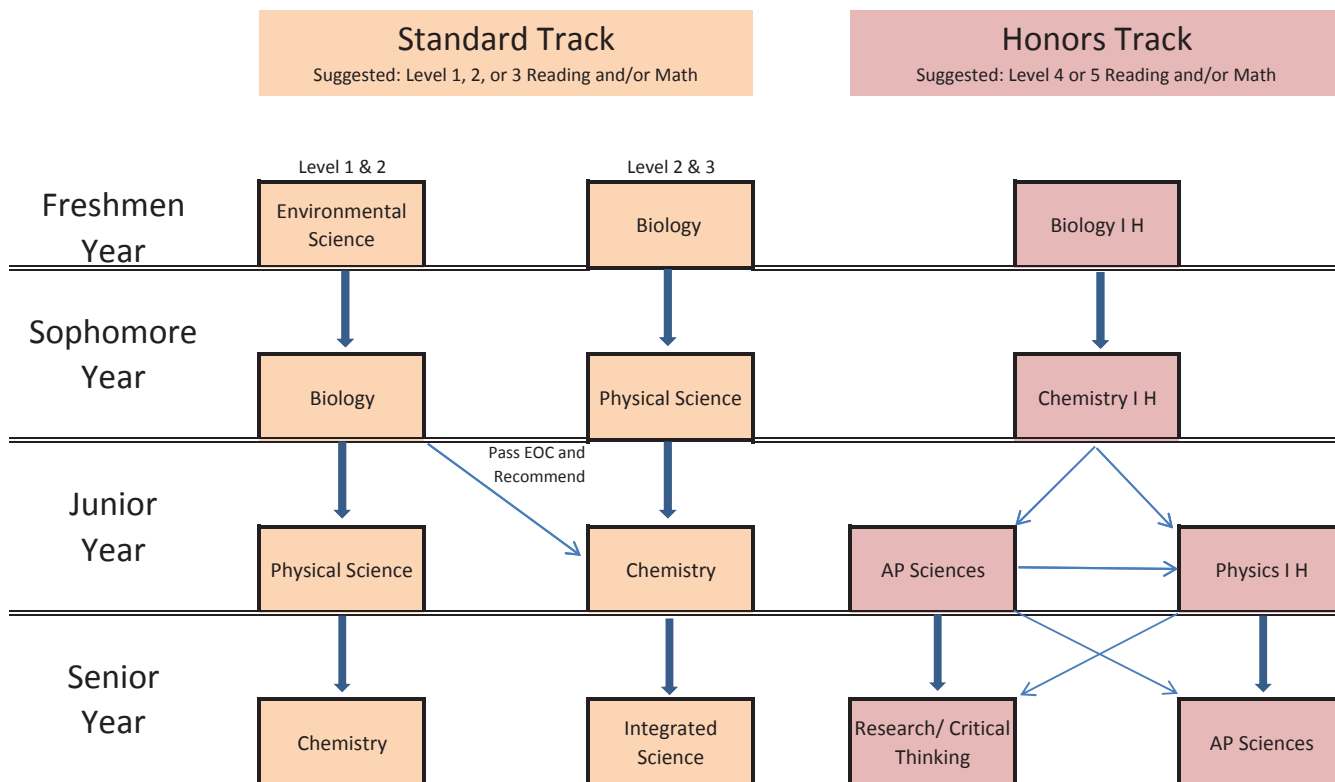
.5 Credit **Grades 10-12**

The purpose of this course is to expose students to a variety of recreational sports, games and team building activities. Within the curriculum, students will learn about sports from other countries and cultures as well as those whose roots began in the United States. Students will develop knowledge and skills and should appreciate both aspects of sports: spectator and participant. This is an activity course and students are expected to participate.



COURSE DESCRIPTIONS: SCIENCE

SCIENCE PROGRESSION PLAN 2011-2012



Environmental 2001340

Prerequisite: Administrative recommendation
1 Credit **Grade 9**

This course will help students strengthen their skills in the areas of academic performance, learning strategies and critical thinking, as they study the interactions between organisms and the environment, biogeochemical cycles, the evolution of life on earth and energy flow. Environmental science is the first year of a 2-course sequence intended to prepare the identified students for success in Biology 1 (a graduation requirement) in the second year of the sequence, students will be administratively enrolled in Biology 1

Biology I Graduation Requirement 2000310

Prerequisite: None **Grade 9**
1 Credit

This course is designed to help students develop skills in the areas of cooperative learning, critical thinking, the scientific method, and the utilization of technology in the research of contemporary problems and issues. The study of life processes will include measurement, cellular biology, genetics, ecology, animal and plant anatomy and physiology, as well as an introduction to the structure and function of the human body. Laboratory activities and safe laboratory techniques are an essential component of the course.

COURSE DESCRIPTIONS: SCIENCE

Biology I Honors
Graduation Requirement
2000320
Prerequisite: None

1 Credit

Grade 9

In this course students will explore the relationship between organisms and their environments, and between individual cells and biological systems. The processes of life will be approached from the viewpoints of cellular structure and function, genetics and molecular biology, classification of organisms, physiology, biochemistry, and biological changes through time. Students will be presented scientific concepts at an advanced level. Laboratory activities are a significant component in the course and offer students an opportunity to become familiar with scientific instruments and experimental methods.

Physical Science
2003310
Prerequisite: Biology and teacher
recommendation

1 Credit

Grade 10-11

This course will prepare students to develop an understanding of the role of chemical and physical technology in everyday life and society. Laboratory activities and safe laboratory techniques are an essential component of the course and allow students to become familiar with scientific instruments and methods as well as provide opportunities to study the concepts of matter, energy, and forces, and their applications through exploratory investigations and activities.

Chemistry I
2003340
Prerequisite: Physical Science

1 Credit

Grades 10-12

The purpose of this course is to introduce students to the study of the composition, properties and changes associated with matter. Topics include, but are not limited to, atomic structure of matter, periodic table as an informational tool, types of chemical bonding, kinetic molecular theory, and water solutions. Laboratory activities and safe laboratory techniques are an essential component of the course.

Chemistry I Honors
2003350
Prerequisite: Biology I Honors

1 Credit

Grade 10

In this course, students will be provided with the study of composition, properties and changes associated with matter. The content shall include, but not be limited to the following: measurement, classification and structure of matter, atomic theory, moles, periodicity, chemical bonding, formula writing, nomenclature, chemical equations, stoichiometry, kinetic theory, gas laws, acids and bases, energy relationships, solids, liquids and solutions. Laboratory activities and safe laboratory techniques are essential components of the course.

Physics I Honors
2003390
Prerequisite: Chemistry Honors, completed
Algebra II or concurrently enrolled.

1 Credit

Grades 11-12

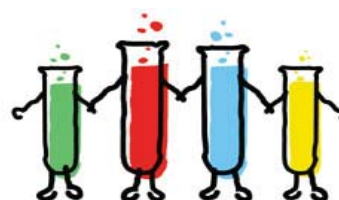
This course will provide students with an introductory study of the theories and laws governing the interaction of matter, energy, and the forces of nature. The content shall include, but is not limited to, mechanics, wave phenomena, electricity, magnetism, optics and sound. Laboratory activities and safe laboratory techniques are essential components of the course.

Integrated Science III
2002440

1 Credit

Grade 12

The purpose of this course is to provide opportunities to investigate the theories and ideas associated with the biological, earth, and physical sciences in a way that is relevant and usable. Students construct science knowledge by formulating questions, making predictions, planning experiments, making observations, classifying, interpreting and analyzing data, drawing conclusions, and communicating.



COURSE DESCRIPTIONS: SCIENCE

Experimental Science I **2002340**

1 Credit

Grades 10-12

The Research I course is designed to promote research experiences for those motivated and inquiring science students who are willing to commit to the time and effort that this course requires. This course is open to students in grades 10-12 but is specifically developed for interested and creative students who want an opportunity to acquire research and laboratory skills through planning and implementing investigations which may lead to advancing career and educational goals. Original research that relates to real-world issues will be encouraged with the supervising science teacher's help in facilitating laboratory time and equipment needed. Research conducted in this course should be suitable for participation in a variety of individual and team projects and contests such as local science fairs, SECME, and NCSSMST.

AP Biology **2000340**

Prerequisite: Biology Honors

1 Credit

Grade 10-12

This course is designed to be the equivalent of a two-semester college introductory biology course. Students will engage in an in-depth study of the following three areas: molecules and cells, heredity and evolution, and organisms and populations. The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and an appreciation of science as a process.

AP Chemistry **2003370**

Prerequisite: Chemistry & Algebra II Honors

1 Credit

Grade 11-12

This course is designed to be equivalent to a two-semester college introductory chemistry class. Topics covered include structures of atoms, molecules and ionic compounds, chemical bonding, chemical reactions, mathematical relationships between chemical substances, modern atomic theory, trends in the periodic table, nuclear chemistry, states of matter, solution chemistry, kinetics, equilibrium, acid-base chemistry, thermodynamics, electrochemistry, and organic chemistry. Emphasis is placed on laboratory-based activities and extensive use of technology in both the classroom and the laboratory. Critical thinking and problem-solving are emphasized as a means of preparing students for advanced science classes that may be taken at the college level.

AP Physics B **2003420**

Prerequisite: Physics & Algebra II Honors

1 Credit

Grades 11-12

This course prepares students for appropriate placement in college physics courses. The content shall include, but is not limited to, kinematics, Newton's laws of motion, conservation laws in classical mechanics, topics in mechanics, kinetic theory and thermodynamics, electrostatics, electric circuits, magnetism, waves and optics, and modern physics. In order to take this course, students must have already taken or are currently taking Algebra II honors.



COURSE DESCRIPTIONS: SOCIAL STUDIES

World History 2109310

1 Credit

Grade 10

World History Honors 2109320

1 Credit

Grade 10

This course will provide an understanding of the contemporary world through an overview of the growth of world religions, the development of political traditions, contemporary world cultures, and current international events.

AP World History 2109420

1 credit

Grade 10

This course will develop a greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced by a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course is focused on the past thousand years of the global experience building on the understanding of cultural, institutional, and technological precedents that along with geography, set the stage prior to 1000 C.E.

American History 2100310

1 Credit

Grade 11

American History Honors 2100320

1 Credit

Grade 11

This course is designed to help students develop an understanding of American history. The course begins with a six week review from colonization to the Reconstruction era. The course continues with an in-depth study of America's rise to power, the Populist and Progressive movements, World War I, and the Crash. This in-depth study continues with an examination of the Depression, World War II, the 50's, 60's, the Vietnam War, Watergate, and the new millennium.

AP American History 2100330

Prerequisite: None

1 Credit

Grade 11

This course includes advanced content in American history, emphasizing critical essay writing, primary and secondary source research techniques, and in-depth interpretations, and analysis of the traditional historical periods of a chronological survey in American history.

American Government 2106310

Prerequisite: None

.5 Credit

Grade 12

This course provides students the opportunity to acquire an understanding of American government and political behavior. Content will include an analysis of documents which shape our political traditions, a comparison of the roles of the three branches of government at the local, state and national levels, a study of state and local government, an understanding of the evolving role of political parties, interest groups, and the media in determining government policy, how the rights and responsibilities of citizens in a democratic state have evolved and been interpreted, and the importance of civic participation in the democratic political process.

AP American Government 2106420

Prerequisite: None

.5 Credit

Grade 12

This course provides students with a challenging opportunity to develop the analytical skills and factual knowledge necessary to deal critically and objectively with the challenges, content, and materials of American government. Emphasis is placed on content and interpretation of the Constitution, federalism, the congress, the presidency, the federal court system, citizen involvement, American political traditions, and responsibilities of citizens.



COURSE DESCRIPTIONS: SOCIAL STUDIES

**Economics
2102310**

Prerequisite: None

.5 Credit

Grade 12

This course is a study of the ways society uses its limited resources to satisfy unlimited wants and the effect Information Technology has had on our economy. Content includes basic economic problems, the market system and structures, the roles of labor, business and financial institutions, the role of the consumer and producer, international trade, and the history of economic thought.

**Economics Honors
2102320**

Prerequisite: None

.5 credit

Grade 12

Through this course, students will understand the choices they must make as producers consumers, investors, and tax payers. The study of economics provides students with the knowledge and decision-making tools necessary for understanding how a society must organize its limited resources to satisfy its unlimited wants.

**AP Human Geography
2103400**

Prerequisite: None

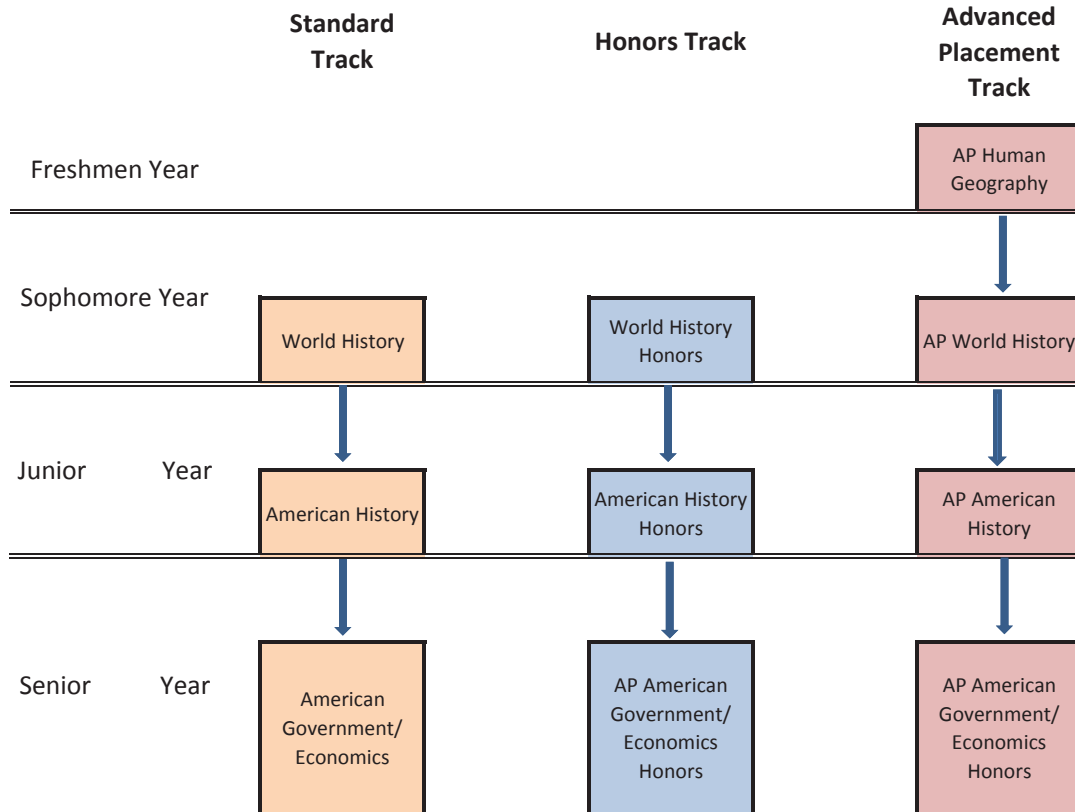
1 credit

Grade 9-12

The purpose of this course is to enable students to develop higher levels of concepts and skills related to Human Geography. The content will include regions, population studies, cultural concepts and spatial representation, political geography, land use, urbanization, issues related to space, place, and scale, and economic geography.



SOCIAL STUDIES PROGRESSION PLAN 2011-2012



How Do I Earn IT Certification at Crooms?

Students earn technology certifications by taking and passing industry certification exams. Certain courses are geared towards industry certification and help prepare students for specific tests. Below is a list of certification exams and the courses that prepare student to successfully pass those exams.

Certification Exam	Corresponding Course
A+ Essentials	Network Concepts/Computer Maintenance and Repair PC Support II
A+ Practical Application	Network Concepts/Computer Maintenance and Repair PC Support II
Adobe Dreamweaver Associate	User Interface Design/Web Publishing 1
Adobe Flash Associate	User Interface Design/Web Publishing 1 Web Design 3 3-D Modeling
Adobe Photoshop Associate	Digital Design 1 Bitmap Graphics Digital Design 3 2-D Graphic Development
CCNA	Networking 1; Networking 2
CIW Design Specialist	Web Programming II/Data Driven Web Sites

TECHNOLOGY PROGRAMS FOR GOLD SEAL VOCATIONAL SCHOLARS BRIGHT FUTURES SCHOLARSHIP

All programs require Introduction to Information Technology as the first course of the program followed by two non-dual enrollment classes within the same vocational program.

Business Computer Programming

Business Computer Programming 1 (Visual Basic 1 credit)
Business Computer Programming 2 (C++)

Web Development

Foundations of Web Design (1 credit)
User Interface Design (1 credit)
Web Scripting Fundamentals (1 credit)

Digital Design

Digital Design 1
Digital Design 3 Honors
Digital Design 4 Honors/Yearbook
Digital Design 5 Honors/Yearbook

New Media Technology

New Media and Digital Imaging Fundamentals
Digital Video and Sound Fundamentals

PC Support Services

PC Support 1
PC Support 2 Honors

Game/Simulation/Animation Programming

Game & Simulations Foundations
Game & Simulation Design
Game & Simulation Programming

Game/Simulation/Animation Visual Design

Game & Simulations Foundations
Game & Simulation Design
Game & Simulation 2D Graphic Development
Game & Simulation 3D Graphic Animation

COURSE DESCRIPTIONS: TECHNOLOGY

REQUIRED COURSE FOR ALL 9TH GRADERS

AOIT Intro to Information Technology 8207310

Prerequisite: None

1 Credit

Grade 9

This course is designed to provide an introduction to information technology concepts and careers as well as the impact information technology has on the world, people, and industry. This is a required course for all AOIT students.

REQUIRED COURSE FOR ALL 10TH GRADERS: PC SUPPORT I OR NETWORK CONCEPTS/NETWORK COMPUTER MAINTENANCE & REPAIR

PC Support 1 8207210

Prerequisite: Intro to IT

1 Credit

Grade 10

This course focuses on basic system support, maintenance, and entry-level network concepts. Emphasis is placed on developing and understanding various computer hardware devices and solutions including installation, trouble-shooting, diagnostic techniques, repair of system components, and common safety and preventative maintenance procedures. Students will also learn basic networking as well as customer service skills. This course will prepare students for the A+ Core exam 220-231 which is the first part of becoming a certified computer service technician.

Network Concepts / Network Computer Maintenance & Repair

(A+ Computer Hardware and Operating Systems)

CET 1486C & CET 1178C

Prerequisite: Intro to IT

1 Credit

Grades 10-12

This course focuses on system support, maintenance, and basic network concepts. The content includes computer software and hardware applications including installation, troubleshooting, diagnostic techniques, and repair of system components, operating systems, and application software; common safety and preventive maintenance procedures; basic networking including physical and logical network connectivity, and effective behaviors that contribute to customer satisfaction. This course will prepare the student for the COMPTia A+ Hardware and Operating Systems Exams.

PC Support 2 Honors 8207220

Prerequisite: PC Support 1

1 Credit

Grades 11-12

This course focuses on operating system technologies from the most basic disk operating system (DOS) up to the latest Microsoft Windows OS. The student will learn from the basic concepts of data recovery using original DOS commands to the newest features that MS Windows brings to the industry today. Areas like data backup and support, system's OS maintenance, and network security issues are also covered. This course will provide you with the knowledge and skills required to pass the A+ Operating Systems Technologies Core exam 220-232.

Business and Entrepreneurial Principles Honors 8215120

Prerequisite: Intro to IT

1 Credit

Grades 10-12

This course is designed to provide an introduction to business organization, management, and entrepreneurial principles. Topics include communication skills, various forms of business ownership and organizational structures, supervisory/management skills, leadership skills, human resources management activities, business ethics, and cultural diversity. Emphasis is placed on job readiness and career development. The use of computers is an integral part of this program. Students will have hands-on experience in setting up and managing a business using virtual business software.

COURSE DESCRIPTIONS: TECHNOLOGY

Office Applications/Advanced Office Applications CGS2100C/CGS2108C

Prerequisite: Intro to IT

1 Credit

Grades 10-12

Semester 1 - course focuses on the concepts and operation of the main components of word processing, electronic spreadsheets, database management and presentation software programs. Students will gain fundamental knowledge of a major software suite and learn skills that have practical application in real world situations. Semester 2 - covers advanced microcomputer applications including word processing, spreadsheet, database, presentation and web development. Topics include form letters, merging, desktop publishing, financial functions, amortization schedules, data tables, creating and querying a worksheet database, templates creating customized reports and forms in a switchboard manager, embedded visuals importing clips into presentation and web publishing.

Digital Video and Sound (New Media and Digital Imaging Fundamentals) 8207410

Prerequisite: Intro to IT or concurrent

1 Credit

Grades 9-12

This course covers advanced planning and video editing for audio/video presentations. Students design presentations through various steps of development, implementation, and final output. Students will gain experience on both PC and Apple platforms, using non-linear editing programs such as Adobe Premiere Pro and Final Cut Pro.

Digital Video and Sound 2 8207420

Prerequisite: Digital Video and Sound 1

1 Credit

Grade 10-12

This is the second-year course for students interested in video production. In this course, students will create computer-generated multimedia images and presentations that communicate ideas through formal, expressive, and conceptual elements. Additionally, students will demonstrate use of collaborative skills to maintain the studio and to offer multimedia presentations in the school and/or community.



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Digital Design 1 8209510

Prerequisite: Intro to IT

1 Credit

Grades 9-12

This course is designed to develop basic entry-level skills required for careers in the digital publishing industry. The content includes computer skills; digital publishing concepts and operations; layout, design, and measurement activities; decision-making activities; and digital imaging. Students will electronically create and publish newsletters, flyers, greeting cards, calendars, brochures, stationery, and more in this multi-software course. Software taught: Adobe InDesign, Illustrator and Photoshop.

Digital Design 2 GRA2201/DIG2000

Bitmap Graphics 1/Introduction to Digital Media

Prerequisite: C or better in Digital Design 1

1 Credit

Grades 10-12

First Semester - this course is an introduction to Photoshop software which provides an extensive variety of electronic tools for manipulating photographs and creating illustrations. The course is designed for the graphics individual who wishes to integrate photography with page layouts. Students will learn the basics of scanning, retouching, color correcting, proofing and output to printer devices. Students taking this course will pursue Adobe Associate certification in Photoshop CS4. Second Semester - this course explores the avenues of contemporary digital design, highlighting the importance of process, innovation and communication. Students will become familiar with design projects, ranging from traditional print and interactive digital media. The course will focus on developing and refining the design concept and the execution strategy.

Digital Design 3 8209530

**Prerequisite: Bitmap Graphics 1 and
Introduction to Digital Media**

1 Credit

Grade 11 - 12

In this course students will apply their knowledge of InDesign, Photoshop and Illustrator to create and publish print publications for the school, business council and other clients. Students will develop a portfolio of their work.

COURSE DESCRIPTIONS: TECHNOLOGY

Digital Design IV / Yearbook 8209540

Prerequisite: Digital Design 1 or taken concurrent
1 Credit **Grades 10-12**

Students will work on all aspects of the school yearbook. The yearbook is a team project that captures school life in a photo-journalism publication including news, sports, features, business and advertising. Students will apply their knowledge of Adobe InDesign, Photoshop and Illustrator along with journalistic writing skills and photography to create the year's yearbook. Participation in this course will require students to be available beyond the school day.

Digital Design V & VI / Yearbook 8209550

Prerequisite: Digital Design IV
1 Credit **Grade 11-12**

These second/third year yearbook students will take on leadership positions in the editorial and publishing staff. Students should be comfortable delegating tasks, supporting the efforts of first-year staff members, meeting deadlines, and assuming leadership responsibilities. Students should be aware that many assignments take place after school hours.

Multimedia Foundations 1 8212430

Prerequisite: Intro to IT
.5 Credit **Grade 10-12**

This course is designed to provide a basic understanding of fundamentals of multimedia. Students learn to plan and create presentations that incorporate scanned images, and images created in various formats and mediums.

AOIT Internship 8207350

Prerequisite: None
1 Credit **Grade 12**

The AOIT internship course provides students with the opportunity to stimulate their career interest and to demonstrate human relations, communications, and employability skills necessary for entry-level employment in the information technology industry. Students will enhance and apply instructional competencies learned in the classroom through the internship experience. This internship is required for students who expect to earn a National Academy Foundation certificate upon graduation.

Business Cooperative Education–OJT 8200410

Prerequisite: AOIT Internship
1 Credit **Grade 12**

This course is designed to provide the on-the-job training component when the cooperative method of instruction is used to prepare students for employment in business occupations. Students should only enroll in this course after they have fulfilled the AOIT Internship requirement.

Foundation of Web Design 9001110

Prerequisite: Intro to IT or concurrent
1 Credit **Grades 9–12**

This course teaches key skills required to design, author and publish XHTML pages with CSS. This includes creating a basic XHTML document, organizing Web documents, creating links, using advanced XHTML features, and creating forms to capture and transfer data. Students will have hands-on experience setting up and creating Web pages on an Intranet.

IT Web Design Digital Media /Web Programming I 8207360 / COP 2830

Prerequisite: Intro to IT or concurrent
1 Credit **Grades 9–12**

This course will focus on the skills required for Web application development using XHTML, client-side scripting and basic server-side scripts. This course will explore the syntax, semantics and limitations of page layout, Cascading Style Sheets and basic scripting. Implementation of server-side scripting will be covered as it pertains to form processing. Examples of tools, W3 standards and cross-browser compatibility will also be examined. Upon completion of the course, the student will be able to design, program and publish a commercial-grade Web site.

User Interface Design/Web Publishing 1 9001120/GRA 2144

Prerequisite: COP 2830
1 Credit **Grade 10-12**

This course includes the design and preparation of Web sites including the Web home page. Focus is from a graphics point of view and emphasis is on the importance of Web page design and layout. The course is taught using various software programs. Basics of HTML for the Web will be introduced.

COURSE DESCRIPTIONS: TECHNOLOGY

Web Design 3 Honors 8207130

Prerequisite: Web Design 1

1 Credit

Grades 11-12

This course involves advanced design concepts for creating web pages. Students will use their advanced skills to create and maintain web sites for school and other organizations. Emphasis will be on achieving proficiency in industry-standard site design.

Web Programming II/Data Driven Web Sites COP 2836/COP 2833

Prerequisite: COP 2830

1 Credit

Grade 11-12

First Semester - Programming on the Web server enables a Web site to interface with databases, access server files and create dynamic content for Web sites. This course introduces the student to a wide variety of server-side programming and scripting technologies. Examples of these tools and languages include Server Side Includes (SSI), Common Gateway Interface (CGI), PERL, ASP, Java Servlets, Java Server Pages (JSP) and JavaScript. Second Semester - This course demonstrates how to leverage the power of a relational database through the use of SQL and server-side scripting. The course will demonstrate how to connect to data from standard ODBC-compliant databases and create database-driven Web sites. Upon successful completion of this course, students will be able to design, develop and publish a dynamic database-driven application suitable for use in business or e-commerce.

Business Computer Programming 1 Principles of Computer Programming (Visual BASIC)

8206010 /COP 1000

Prerequisite: Algebra I or Intro to IT

1 Credit

Grades 9-12

This course provides a study of Visual BASIC.NET and its application to Windows programs. Students will design, implement and document computer programs utilizing the Visual BASIC.NET programming language. Visual BASIC.NET is visually oriented and is an event-driven programming language.

Business Computer Programming 2 (C++)

8206020

Prerequisite: Bus. Comp. Programming 1

1 Credit

Grades 10-12

This course provides a study of C++. The programming concepts and techniques taught in this course include development and use of programming language(s), sequential, logical problem solving, algorithms and flowcharts, syntax, vocabulary, and data structures in programming, writing, testing, and debugging computer programs, and ethical and social implications.

C# Programming COP2360

Prerequisite: Bus. Comp. Programming 1

1 Credit

Grades 11-12

This course provides an introduction to the C# programming language. Students will learn the basic features of the language including selection, iteration, data types, and scope. In addition, the course will cover the object-oriented aspects of the language including encapsulation, inheritance, and polymorphism.

Advanced C# Programming COP2362

Prerequisite: C# Programming

1 Credit

Grades 11-12

The student will use the more advanced features of the C# programming language to create complex applications that utilize graphical user interfaces, databases, multithreading, Internet communications, and multimedia.

AP Computer Science A 0200320

Prerequisite: Business Comp Programming 1

1 Credit

Grades 11-12

This course emphasizes programming methodology and procedural abstraction using object-oriented programming. The course is taught in the Java programming language and includes the study of algorithms, data structures, and data abstraction. The content will include, but not be limited to, the content specified by the Advanced Placement Program

COURSE DESCRIPTIONS: TECHNOLOGY

Networking 1 (Cisco Networking 1 & 2) CET 1600 / CET 1610

1 Credit

Grades 10–12

This course is designed to prepare students to understand and apply the basics of networking hardware. The course covers the OSI Model and industry standards; network topologies; IP addressing, including subnet masks; basic network design; beginning router configurations; routed and routing protocols; and an introduction to LAN switching. Students will have a complete “hands-on” program that provides the opportunity to receive internationally recognized certification in Copper Based and Fiber Optic Communications Network Cabling. This is the first of two courses which will prepare students for the Cisco Certified Networking Associate Exam. **Networking 2**

(Cisco Networking 3 & 4) CET 2615 / CET 2620

Prerequisite: Networking 1 & 2

1 Credit

Grades 10–12

This course is designed to prepare students to apply and understand the advanced principles and applications of networking hardware. The course covers the advanced router configurations; LAN switching; network management; and advanced network design. Students will work on advanced network design projects and advanced network management projects. This is the last course to prepare students for the Cisco Certified Networking Associate Exam.

Oracle Structured Query Language (SQL) Network Cabling CTS2445/CET1488C Prerequisite: CET1610

1 Credit

Grade 11-12

First semester - this class covers the industry standard Structured Query Language (SQL) and additional SQL features specific to Oracle relational databases. Students learn to create and maintain database objects and to store, retrieve and manipulate data. This course prepares students for the Oracle Application Developer and Database Administrator exams. Second Semester - This hands-on network wiring and cabling course is designed to provide students with the knowledge and skills necessary to become entry-level technicians in the network cabling industry. Students will develop critical skills needed to terminate, test, and troubleshoot data and video networking wiring.

Introduction to UNIX (Linux+) Introduction to Internetworking Security (Security +) CET 1526C/CTS1120

1 Credit

Grade 12

This course introduces students to the UNIX Operating System. The course includes an overview of UNIX, simple commands, the VI Editor, file system, shell, communication, program development, shell programming and shell scripts. Second Semester - This course examines the principles, mechanisms and implementation of network security and data protection. The topics presented will help students gain the fundamentals of network security and explain what happens behind the scenes and from the point of view of a computer. Topics include definition and use of password crackers, operating system exploits, what is a Hacker, IP Spoofing, Session Hijacking, Denial of Service attacks (DOS), Bugger Overloads, general concepts of password security, how to create a company-wide security policy, how to perform security audits and how to recover from such attacks.

Introduction to Wireless Technologies Introduction to IP Telephony CET1854C/ CET1675C Prerequisites: Net 1 and 2

1 Credit

Grades 11–12

First Semester - this course is designed to provide students with a complete foundation of knowledge for entering into or advancing in the wireless networking industry. It covers basic RF theory to link budget math, including topics from troubleshooting to performing a site survey. This course delivers hands-on training that will benefit the novice as well as the experienced network professional. This course is offered onsite at SSC on Monday and Wednesday afternoons, and students must provide their own transportation. Second semester - This course explains how companies are using IP Telephony equipment and software to efficiently upgrade existing telephone systems. The course will additionally give the student a fundamental understanding of the architecture of voice communication and how signaling, call quality and public switched telephone network operate in a LAN/WAN networking environment. The use of IP Telephony products will be discussed and how software allows companies to cost-effectively upgrade and eventually replace existing (legacy) telephone systems with more cost effective and easy to use telephone equipment. This course is offered onsite at SSC on Monday and Wednesday afternoons, and students must provide their own transportation.

COURSE DESCRIPTIONS: TECHNOLOGY

Game & Simulation Foundations 8208110

1 Credit

Grade 9-12

This course is designed to provide an introduction to game and simulation concepts and careers, the impact game and simulation has on society and industry, and basic game-simulation design concepts such as rule design, play mechanics, and media integration. This course compares and contrasts games and simulations, key development methodologies and tools, careers, and industry-related information. This course also covers strategies, processes, and methods for conceptualizing a game or simulation application; storyboarding techniques; and development tools.

Game & Simulation 2D Graphic Development (8208130)

Prerequisite: Intro to IT

1 credit

Grades 9 - 12

This course is focused on students acquiring skills to create, refine, and integrate realistic 2D graphics into a game or simulation product. Students will essentially learn how to use a graphic software package, file maintenance strategies, and migration techniques and issues. Software taught: Adobe Photoshop, Illustrator and Flash.

Game & Simulation 3D Graphic Animation (8208140)

Prerequisite: Intro to IT

1 Credit

Grades 10-12

This course is focused on students acquiring skills to create, refine, and integrate realistic 3D graphics into a game or simulation product. Students will essentially learn how to use a 3D animation software package, file maintenance conventions, and migration techniques and issues.

Game & Simulation Programming 8208330

**Prerequisite: Bus. Computer Programming 1
1 Credit Grades 10-12**

This course is focused on students acquiring the appropriate programming skills for rendering a game or simulation product, including program control, conditional branching, memory management, score-keeping, timed event strategies and methodologies, and implementation issues.

Game & Simulation Design 8208120

**Prerequisite: Game & Simulation Foundations
AND ONE of the following: Game and Simulation
Programming, 2-D Graphic Development, or 3-D
Graphic Animation**

1 Credit

Grade 11-12

This course covers fundamental principles of designing a game or a simulation application, in particular Human Computer Interface (HCI) principles, rules and strategies of play, conditional branching, design and development constraints, use of sound and animation, design tools, and implementation issues. The content includes market research, product design documentation, storyboarding, proposal development, and presentation of a project report. Emphasis is placed on the techniques needed to develop well-documented, structured game or simulation programs. Extensive use is made of evaluating and analyzing existing games or simulations. Culminating activity is the creation and presentation of a playable game with design documentation.



Emergent Technologies - iPhone Apps 0200360

Prerequisite: BCP 1

.5 Credit

Grade 10-12

If you are interested in iPhone application development, then this is the course for you. In this semester course, you will learn to write iPhone applications. Prior programming experience is not required but highly recommended.

Emergent Technologies - Social Networks 0200360

.5 Credit

Grade 10-12

This course introduces students to a variety of new and emerging technologies used in today's online environment. It covers various social networking platforms, content and learning management tools, web conferencing, immersive environments, and other trends in social computing.

INDEX

Number	Course	Prerequisite	Credit	Term	Page
1000410	10th Grade Intensive Reading		2	YR	15
1000410	11th-12th Grade Intensive Reading		2	YR	16
1000410	9th Grade Intensive Reading		2	YR	15
COP2362	Advanced C# Programming	C# Programming	0.5	SEM	30
1200500	Advanced Math w/Financial Applications	Algebra I & Geometry	1	YR	18
CGS2108	Advanced Office Applications	Intro to IT	0.5	SEM	28
1001480	Advanced Reading		1	YR	16
1200310	Algebra I		1	YR	18
1200320	Algebra I Honors		1	YR	18
1200330	Algebra II	Geometry	1	YR	18
1200340	Algebra II Honors	Geometry Honors	1	YR	18
2106310	American Government		0.5	SEM	24
2100310	American History		1	YR	24
2100320	American History Honors		1	YR	24
1201310	Analysis of Functions	Algebra II	1	YR	19
8207350	AOIT Internship		1	YR	29
8207310	AOIT Intro to Information Technology		1	YR	27
2106420	AP American Government		0.5	SEM	24
2100330	AP American History		1	YR	24
2000340	AP Biology	Biology I Honors	1	YR	23
1202310	AP Calculus	Pre-Calculus	1	YR	19
2003370	AP Chemistry	Chemistry I Honors & Algebra II Honors	1	YR	23
0200320	AP Computer Science A	Business Computer Programming I	1	YR	30
1001420	AP English Language & Composition		1	YR	15
1001430	AP English Literature & Composition		1	YR	15
2103400	AP Human Geography		1	YR	25
2003420	AP Physics B	Physics & Algebra II Honors	1	YR	23
0708400	AP Spanish Language	Spanish III	1	YR	13
2109420	AP World History		1	YR	24
2000310	Biology I		1	YR	21
2000320	Biology I Honors		1	YR	22
GRA2201	Bitmap Graphics	C or better in Digital Design I	0.5	SEM	28
8206010	Business Computer Programming I	Algebra I & Intro to IT or concurrent	0.5	SEM	30
8206020	Business Computer Programming II	Business Computer Programming I	1	YR	30
8200410	Business Cooperative Education - OJT	AOIT Internship	1	YR	29
8215120	Business Entrepreneurial Principles	Intro to IT	1	YR	27
COP2360	C# Programming	Business Computer Programming I	0.5	SEM	30
1202300	Calculus	Pre-Calculus	1	YR	19
2003340	Chemistry I	Physical Science	1	YR	22
2003350	Chemistry I Honors	Biology I Honors	1	YR	22
0711300	Chinese I		1	YR	13
0711310	Chinese II	Chinese I	1	YR	13
0711320	Chinese III	Chinese II	1	YR	13
0711330	Chinese IV	Chinese III	1	YR	13
1303300	Chorus I		1	YR	12
1303310	Chorus II	Chorus I	1	YR	12
CET2615	Cisco Advanced Routing & Switching	Cisco Router Technology	0.5	SEM	31
CET1600	Cisco Networking Fundamentals	Intro to IT	0.5	SEM	31
CET2620	Cisco Projects in Routing Design & Admin	Cisco Advanced Routing & Switching	0.5	SEM	31

Number	Course	Prerequisite	Credit	Term	Page
CET1610	Cisco Router Technology	Cisco Networking Fundamentals	0.5	SEM	31
COP2833	Data Driven Web Sites	Web Programming I	0.5	SEM	30
8209510	Digital Design I	Intro to IT or concurrent	1	YR	28
8209530	Digital Design III	Bitmap Graphics & Intro Digital Media	1	YR	28
8209540	Digital Design IV - Yearbook	Digital Design I or Concurrent	1	YR	29
8209550	Digital Design V - Yearbook	Digital Design IV	1	YR	29
8207420	Digital Video & Sound II	New Media and Digital Imaging	1	YR	28
2102310	Economics		0.5	SEM	25
2102320	Economics Honors	must take AP Government	0.5	SEM	25
1304300	Electronic Music I		1	YR	12
1304310	Electronic Music II	Electronic Music I	1	YR	12
1304320	Electronic Music III	Electronic Music II	1	YR	12
0200360	Emergent Technologies - iPhone Apps	Business Computer Programming I	0.5	SEM	32
0200360	Emergent Technologies - Social Networks	Intro to IT	0.5	SEM	32
1001310	English I		1	YR	14
1001320	English I Honors		1	YR	14
1001340	English II		1	YR	14
1001350	English II Honors		1	YR	14
1001370	English III		1	YR	14
1001380	English III Honors		1	YR	14
1001400	English IV		1	YR	14
1001410	English IV Honors		1	YR	15
2001340	Environmental		1	YR	21
1501310	Fitness Issues for Adolescents		0.5	SEM	20
9001110	Foundation of Web Design	Intro to IT or concurrent	1	YR	29
8208130	Game & Simulation 2D Graphic Development	Intro to IT or concurrent	1	YR	32
8208120	Game & Simulation Design	G & S Found., and 1 other G & S course	1	YR	32
8208110	Game & Simulation Foundations	Intro to IT or concurrent	1	YR	32
8208330	Game & Simulation Programming	Business Computer Programming I	1	YR	32
1206310	Geometry	Algebra I	1	YR	18
1206320	Geometry Honors	Algebra I Honors	1	YR	18
CET1526	Introduction to UNIX/ C Programming	Intro to IT	0.5	SEM	31
2002440	Integrated Science III		1	YR	22
1200400	Intensive Math I		1	YR	17
1200400	Intensive Math II		1	YR	17
DIG2000	Intro to Digital Media	C or better in Digital Design I	0.5	SEM	28
CET1675	Introduction to IP Telephony	Networking 1 & 2	0.5	SEM	31
CET1854	Introduction to Wireless Technologies	Networking 1 & 2	0.5	SEM	31
8207360	IT Web Digital Media	Intro to IT or concurrent	0.5	SEM	29
2400300	Leadership		1	YR	12
1200700	Math for College Readiness	Algebra II	1	YR	19
8212430	Multimedia Foundations I	Intro to IT	0.5	SEM	29
CET1488	Network Cabling	Intro to IT	0.5	SEM	31
CET1178	Network Computer Maintenance & Repair	Intro to IT	0.5	SEM	27
CET1486	Network Concepts & Operating Systems	Intro to IT	0.5	SEM	27
8207410	New Media and Digital Imaging Fund.	Intro to IT or concurrent	1	YR	28
CGS2100	Office Applications	Intro to IT	0.5	SEM	28
CTS2445	Oracle Structured Query Language (SQL)	Intro to IT	0.5	SEM	31
8207210	PC Support I	Intro to IT	1	YR	27
8207220	PC Support II	PC Support I	1	YR	27
1501300	Personal Fitness		0.5	SEM	20

Number	Course	Prerequisite	Credit	Term	Page
2003310	Physical Science	Biology I	1	YR	22
2003390	Physics I Honors	Chemistry I Honors	1	YR	22
1202340	Pre-Calculus	Algebra II	1	YR	19
COP1000	Principles of Computer Programming	Algebra I & Intro to IT or concurrent	0.5	SEM	30
1502470	Recreational Activities		0.5	SEM	20
1700300	Research & Critical Thinking		1	YR	23
1000400	SOAR I - Grade 9		1	YR	15
1000400	SOAR II - Grade 10		1	YR	15
1000400	SOAR III - Grade 11		1	YR	16
0708340	Spanish I		1	YR	13
0708350	Spanish II	Spanish I	1	YR	13
0708360	Spanish III	Spanish II	1	YR	13
0708370	Spanish IV	Spanish III	1	YR	13
1302420	Steel Band		1	YR	12
1503350	Team Sports I		0.5	SEM	20
1503360	Team Sports II	Team Sports I	0.5	SEM	20
9001120	User Interface Design	Web Programming I	0.5	SEM	29
8207130	Web Design III	Web Programming I, II or Web Publish	1	YR	30
COP2830	Web Programming I	Intro to IT or concurrent	0.5	SEM	29
COP2836	Web Programming II	Web Programming I	0.5	SEM	30
GRA2144	Web Publishing I	Web Programming I	0.5	SEM	29
2109310	World History		1	YR	24
2109320	World History Honors		1	YR	24

NOTES

		Four Year Plan				
Subjects	Graduation Requirement	Recommended for College	Grade 9	Grade 10	Grade 11	Grade 12
English	4	4	English I (standard or honors)	English II (standard or honors)	English III (standard or honors) AP Lang. & Comp.	English IV (standard or honors) AP Lit. & Comp
Math	4	4	Algebra I, Geometry or Algebra II			
Science	4	4	Biology (standard or honors) Environmental Science	Biology, Chemistry, or Physical Science		
Social Studies	3	3		World History (standard or honors) AP World History	American History (standard or honors) AP American History	Amer. Govt./Economics AP Amer. Govt./ Honors Economics
Physical Education	.5 .5	.5 .5	Physical Education Personal Fitness			
Fine Arts	1	1				
World Language		2				
Required IT Elective	2		Intro to Information Technology	PC Support or A+		
IT Elective						
IT Elective						
Total	26		7	7	7	7

* Some advanced placement coursework is also recommended for college-bound students.