Welcome to Crooms Academy of Information Technology

Where we are Rich in Tradition, Pride, and Vision

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

Ms. Demetria Hayes, Assistant Principal

Mrs. Mickey Reynolds, Assistant Principal

Mrs. Cindy Dawson, Guidance Counselor

Mrs. Cheryl Simpson, Guidance Counselor

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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 attend an advisement period with their faculty adviser.

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 two class periods. 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 student's school.

How Do I Register?

A guidance counselor will meet with all students to distribute registration materials. At that time, students will be briefed on filling out the registration form and selecting their classes for the upcoming school year. As soon as possible, and prior to selecting courses, all students should read this guide carefully to familiarize themselves with the information it contains.

Incoming 9th grade students: A guidance counselor will be visiting all middle schools in Seminole County to work through the registration process with incoming 9th graders. Parents and students wishing to obtain more information regarding the school program and course selections should attend the Open House for incoming 9th graders on Tuesday, February 26th at 6:30 p.m. in the Cafetorium on Crooms' campus.

All information regarding courses and graduation requirements is subject to change, pending legislation and state mandates. **Courses in this guide may possibly 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. Take the curriculum guide home and discuss your course selections with your parents/guardians.
3. Write down any questions you may have for your counselor.
4. Fill in personal information at the top of the registration form.
5. List your required course selections. Make sure to include level of courses selected.
6. List the electives you have selected.
7. Make all selections carefully as they will be binding if the class is offered.

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 when necessary. Every effort will be made not to disrupt the educational process when such changes become necessary.

Registration Calendar

Monday, January 28	Curriculum Guides distributed to students entering grades 10-12. Counselors will visit all classrooms during this week to review registration process.
Monday, January 28	AP Informational Lunches begin. Teachers will distribute schedule of meetings.
Thursday, February 7	All students must submit completed schedules to their 7th period teachers. *Students who do not submit schedules will have one created for them by their guidance counselor.
Monday, February 11	Middle school visits begin.
Tuesday, February 26	New students Open House (6:30 p.m. in Cafetorium)
Friday, February 29	Middle School students' schedules due.

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.

To be eligible for a high school choice program, students must reside in Seminole County and complete the 8th grade. By signing the required program application, parents and students agree to commitment statements that include academic standards, attendance, conduct, and honor code.

Applications are available at all middle and high school guidance departments and the Choices Department at the Educational Support Center, 400 East Lake Mary Blvd., Sanford.

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

Academy of Health Careers - Seminole High School

The Academy of Health Careers at Seminole High School provides a demanding interdisciplinary academic program. Students prepare for further study at the college level or to begin a career in health care upon high school graduation. Hands-on learning opportunities enable students to preview various health care careers through job shadowing and clinical experiences in area hospitals, clinics, medical, and veterinary offices. The Emergency Medical Technician (EMT) Program in conjunction with Seminole Community College is available to students in the Health Careers program.

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

For further information, contact Mrs. Nancy Julian, Program Director, 407-320-5063 or Mr. 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 four areas of concentration:

- Architectural Engineering and Design
- Aerospace Engineering
- 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 Dr. Mary Neal, Program Coordinator, 407-320-5223 or Mindi Craft, IB Guidance Counselor, 407-320-5224.

Other Choice Options: Academy of Construction Technologies

All Seminole County High Schools: 11th and 12th grade 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 worksite experience. 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.

For further information, contact your high school guidance counselor or Richard Gregg, ACT Program Specialist, 407-474-8544.

Quest Academy

Quest Academy is a Seminole County Public School serving ninth and tenth grade students from across the district who have not been academically successful in the traditional academic system. The school will feature small class sizes, limited enrollment, a prescriptive curriculum, and instruction suited to various learning styles. Students and parents must commit themselves to the program requirements and contract to be a part of a collaborative effort for the student's success. Contracts are for a year with an end goal to return the student to their zoned high school once they are achieving on par with their age group.

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

For more information please contact Leah Johnson, Guidance Counselor, at 407-320-4792.

Crooms Requirements for Graduation

26 Credits to Graduate
Passing Score on the FCAT
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	**.5^**
Physical Education	**.5**
Practical Arts (Technology Courses) and/or **Performing/Fine Arts** (Electronic Music or Computer Graphics)	**1****
Electives (Required IT Courses for all AOIT students)	**9**
Computing for College and Careers or Business	
Software Applications 1 (9th grade)	**1**
Intro to Information Technology (9th grade)	**1**
PC Support 1 or A+ (10th grade)	**1**

***Graduating classes beginning with 2010 will be required to earn 4 years of math credit during high school.*

^Students graduating in 2009 and 2010 are still required to have Life Management to graduate.

***Graduating classes beginning with 2011 will be required to earn 1 credit in performing fine arts.*

Grade Level Classification

9th Grade: A student who has been promoted from 8th grade.

10th Grade: A student who has earned five and a half (5.5) 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 eighteen and a half (18.5) credits beyond the 8th.

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 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 Grade 10 FCAT, will receive a Certificate of Completion. In accordance with s. 1008.22(3)(c), F.S., the Grade 10 FCAT Writing+ test will become a graduation requirement beginning in 2010. This means that a student enrolled in Grade 9 for the first time in the 2006-07 school year must achieve a passing score on the Grade 10 FCAT Writing+ assessment in addition to the current reading and mathematics requirements in order to graduate with a standard high school diploma.

Opportunities for Additional Credit

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

1. **Credit by Examination** (Nov. & April)
2. **Summer School**--beginning in the summer after the successful completion of the 8th grade and each succeeding summer in high school.
3. **Students may be awarded high school credit in middle school for the following courses**:

(a) Algebra I--the student must successfully complete and demonstrate mastery of the performance standards.

(b) Geometry--the student must successfully complete and demonstrate mastery of the performance standards.

(c) Any foreign language--to be taught on the high school campus. The students must successfully complete the course and demonstrate mastery of the performance standards.

(d) Biology--The students must successfully complete the course and demonstrate mastery of the performance standards.

4. **Dual Enrollment**
5. **Florida Virtual School**--Check www.flvs.net for more information.

Florida's Bright Futures Scholarship Program

All state scholarships, eligibility requirements and award amounts are subject to change PENDING LEGISLATIVE ACTION.

The Office of Student Financial Assistance (OFSA) within the Florida Department of Education administers the renewal and disbursement activities for the Florida Bright Futures Scholarship Program, which includes the Florida Academic Scholars Award (FAS), the Florida Merit Scholars Award (FMS), and the Florida Gold Seal Vocational Scholars Award (FGS). Academic criteria for eligibility and award amounts are described below.

A 2001 law, Section 240.4015, Florida Statutes, requires the use of CLEP, AP, or IB examinations or dual enrollment courses as acceleration options by Bright Furture recipients to earn college credit (not applicable for Florida Gold Seal). For specific requirements, visit the website at *www.firn.edu/doe/brfutures*, call toll free at 1-888-827-2004, or see your guidance counselor.

Florida Academic Scholars Award

Award Level:

Public Institution

100% of tuition and fees, and up to a total of $600.00 per year.

Private Institution

Fixed award amount based on 100% of the average tuition and fees at a comparable Florida public institution and $600 cost of education allowance prorated by term and hours

Grade Point Average (GPA)

3.5 weighted GPA (based on the Statewide Scholarship Weighting System) using the 15 credits listed below, combined with test scores and community service hours

May use up to 3 additional credits in subject areas below to raise GPA

Required Credits

- 4 English (3 with substantial writing)
- 3 Mathematics (Algebra 1 and higher)
- 3 Natural Sciences (2 with substantial lab)
- 3 Social Sciences
- 2 Foreign Languages (in the same language)

15 Total Credits

Community Service

(District approval needed for community service hours)

75 hours **(required for applicants)**

Test Scores

1270 SAT or 28 ACT (Test dates through June will be admissible)

Other Ways to Qualify (Community Service of 75 hours required)

- *National Merit or Achievement Scholars and Finalists*
- *IB Diploma Recipient*
- *Students who have completed the IB curriculum with a 1270 SAT or 28 ACT*
- *Students who have attended a home education program according to*

Florida Medallion Scholars Award

Award Level:

Public Institution

75% of tuition and fees

Private Institution

Fixed award amount based on 75% of the average tuition and fees at a comparable Florida Public Institution prorated by term and hours.

Grade Point Average (GPA)

3.0 weighted GPA (based on the Statewide Scholarship Weighting System) using the 15 credits listed below and test scores listed below.

May use up to 3 additional credits in subject areas listed below to raise GPA.

Required Credits

- 4 English (3 with substantial writing)
- 3 Mathematics (Algebra 1 and higher)
- 3 Natural Sciences (2 with substantial lab)
- 3 Social Sciences
- 2 Foreign Languages (in the same language)

15 Total Credits

Community Service

No requirements

Test Scores

970 SAT or 20 ACT

Other Ways to Qualify

- Students who have completed the IB Curriculum with a 970 SAT or 20 ACT
- Students who have attended a home education program according to S.232.02(4),F.S., during grades 11 and 12 with a 970 SAT or 20 ACT and provide documentation of the 15 college-preparatory credits required above.
- Students who have attended a home education program according to

Florida Gold Seal Vocational Scholars Award

Award Level:

Public Institution

75% of the average tuition and fees

Private Institution

Fixed award amount based on 75% of the average tuition and fees at a comparable Florida public institution prorated by terms and hours

Grade Point Average (GPA)

3.0 weighted GPA (based on the Statewide Scholarship Weighting System) using the core 15 credits required for graduation.

3.5 unweighted GPA in a minimum of 3 credits from the same vocational program, and test scores listed below.

Required Credits

- 4 English
- 3 Mathematics
- 3 Natural Sciences
- 3 Social Sciences (Am. Hist., World Hist., Am. Govt., and Econ.)
- 1 Practical Art or 1 Performing Art or 1/2 credit in each
- 1/2 Life Management Skills
- 1 Physical Education (1/2 Personal Fitness and 1/2 P.E. elective)
- A minimum of 3 sequential Vocational Job-Preparatory of Technology Education

Community Service

No Requirements

Test Scores:

Must meet one of the test requirements below

***CPT**—Reading 83, Sentence 83, Algebra 72*

***ACT**—Reading 18, English 17, Math 19*

***SAT**—Verbal 440, Math 440*

***Other Ways to Qualify**: None*

Gold Seal Scholarship Program Completion Requirements

The Gold Seal scholarship program requires that students take a minimum of three sequential technology education courses. (For other requirements, please see page 7 which details the Bright Futures Scholarship Program.) As Crooms students are planning their technology electives, they should make certain they choose three electives in a sequence. The sequences available to Crooms AOIT students are listed below.

Academy of Information Technology
82007300

Computing for College & Careers

AOIT Introduction to Information Technology

AOIT Technical Support / Networking

AOIT Internship

Administrative Assistant
8212500

Computing for College & Careers

Business Software Applications I

Business Software Applications II

Business and Computer Programming
3206500

Computing for College & Careers

Business Computer Programming I

Business Computer Programming II

Digital Design
8209600

Computing for College & Careers

Digital Design I

Digital Design II

Digital Design III

Network Support Services
8208000

Computing for College & Careers

Networking I

Networking II

Networking III

Networking IV

Networking V

Networking VI

PC Support Services
8207340

Computing for College & Careers

PC Support I

PC Support II

Web Design Services
8207500

Business Systems & Technology

Web Design I

Web Design II

Web Design III

Web Design IV

Tech Prep College Credit Opportunities

What is Tech Prep?

Tech Prep is a nationwide program designed to give high school students a head start on a college degree or certificate by earning college credit while in high school. A Tech Prep Student can be a Gold Seal Scholarship award winner if they take three technical classes within a cluster and maintain an average in these classes of a 3.5 GPA. (See a guidance counselor for further details or www.firn.edu/doe/brfuture/gsvrequire.htm) In Seminole County, Tech Prep is a joint effort between Seminole Community College and the Seminole County School-to-Career initiative. If the Tech Prep Office can assist in answering your questions, please contact them through their website at scc-fl.edu/techprep.

How Does It Work?

This is a tremendous program and there is absolutely no cost to high school students! The only requirement is that students pass an assessment test (students must state that they are taking the assessment for college credit) given in high school each April and then enroll in one course at Seminole Community College within two years of graduation. Additionally, students must submit a form (see counselor for form) to the community college requesting that their Tech Prep credits be added to their transcript. Many students may also choose to utilize their Tech Prep credits in a program area or as an elective at a four-year university. However, students must check with the four-year university on their elective or program requirements as they vary from college to college.

What Courses at Crooms AOIT Qualify for Tech Prep?

High School Course	College Credit
Computing for College and Careers	3
Business Software Applications I	3
Business Software Applications II	3
Digital Design I	3
Business Computer Programming I	3
Web Design I	3

Advanced Placement Opportunities

The Advanced Placement Program is an educational endeavor between secondary schools, colleges and universities. It allows high school students to take college-level academic courses, and on the completion of these courses, be given the opportunity to test and prove they have mastered the advanced material taught in these classes. The AP program has been administered by the College Board since 1955. Currently about 2900 colleges and universities grant credit and advanced placement to entering students whose AP grades meet their requirements.

These AP programs offer benefits to both the local school and the students. The schools are given the opportunity to offer higher level courses to motivate their best students; the program enhances the quality of the schools' curriculum; and it demonstrates to the community a commitment to strong academic standards. Students benefit because they are given the opportunity to participate in college level courses, and if successful, they are made exempt from some introductory college courses. This allows students to move more quickly through their mandatory college credits and it reduces their college costs; a student does not have to pay for college courses that he/she has successfully completed in high school. In addition, if your student is eligible to receive a Florida based scholarship, AP credits allow the student to bypass additional testing requirements. Most of the prerequisites for the AP classes are Honors level classes. Encourage your student to take Honors level classes so he/she has the option of choosing AP.

Advanced Placement Course Offerings and *Prerequisites*

	Grade 10	**Grade 11**	**Grade 12**
English	*English II Honors*	**AP Language and Composition**	**AP Literature and Composition**
Mathematics	*Algebra II Honors*	*Pre-Calculus*	**AP Calculus AB**
Science	*Chemistry Honors* **AP Biology**	*Physics Honors* **AP Biology** **AP Chemistry** **AP Physics AB**	**AP Biology** **AP Chemistry** **AP Physics AB**
Social Studies	*World History Honors* **AP World History**	*American History Honors* **AP Amer. History**	**AP American Government**
Foreign Language	*Spanish II* *Spanish III*	*Spanish III* *Spanish IV* **AP Spanish**	**AP Spanish**
Computer Science	*Business Computer Programming I*	*Business Computer Programming I, II* **AP Comp. Science**	**AP Computer Science**

Dual Enrollment Program

Seminole Community College Career Dual Enrollment

Seminole Community College is offering an opportunity to earn college credit toward an Associate in Science degree while still attending high school. Students may earn up to 24 college credits during their junior and senior years. Classes are offered during the regular school day. Students must have a 3.0 gpa as well as take the College Placement Test to qualify for dual enrollment classes. SCC administers the College Placement Test on the campus of Crooms each Spring. All SCC Associate in Science degree programs articulate into the UCF Bachelor of Applied Science. Applications and class schedules can be obtained from your high school guidance counselor. Students may choose from the following Associate in Science Degree programs:

AS Degree Information Technology (Pre-BSIST), Programming Specialization*

Sophomore Year Fall	Sophomore Year Spring	Junior Year Fall	Junior Year Spring	Senior Year Fall	Senior Year Spring
AOIT Networking (Credit for SCC's CET1486C Network Concepts)	AOIT Networking (Credit for SCC's CET1173 Network Computer Maintenance and Repair)			COP2360 C# Programming *online	COP2362 Advanced C# Programming *online
	Business Computer Programming 1 (Credit for SCC's COP 1000 Principles of Computer Programming)		Web Design 1 (Credit for SCC's COP2830 Web Programming 1)	COP1651C Introduction to Wireless Programming *at SCC	COP2822 Web Applications *at SCC

Shaded classes are offered on the campus of SCC. All others are offered at Crooms.

*Dual Enrollment program courses are from SCC AS Degree program (Computer Information Systems Technology (Pre-BSIST), Programming Specialization) which articulates directly to UCF's BS Information Systems Technology Program

AS Degree Information Technology (Pre-BSIST), Networking Specialization*

Sophomore Year Fall	Sophomore Year Spring	Junior Year Fall	Junior Year Spring	Senior Year Fall	Senior Year Spring
CET 1600C Cisco Network Fundamentals	CET1610 Cisco Router Technology	CET2615C Cisco Advanced Routing and Switching	CET2620C Cisco Projects in Routing Design and Administration	CET1854C Intro to Wireless Technology *at SCC	CET1675 Into to IP Telephony *at SCC
AOIT Networking (Credit for SCC's CET1486C Network Concepts)	AOIT Networking (Credit for SCC's CET1173 Network Computer Maintenance and Repair)				

Shaded classes are offered on the campus of SCC. All others are offered at Crooms.

*Dual Enrollment program courses are from SCC AS Degree program (Computer Information Systems Technology (Pre-BSIST), Networking Specialization) which articulates directly to UCF's BS Information Systems Technology Program

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. Quality points are shown below.

Letter	Quality Point
A	4
B	3
C	2
D	1
F	0

Weighted Grade Point Average

Students have a Florida GPA which is unweighted and a 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 and AP
A	4	4.5	5
B	3	3.5	4
C	2	2.5	3

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.

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.

Athletic Eligibility

An incoming ninth grader must have been regularly promoted, not assigned, from the eighth grade according to the district's pupil progression plan to be eligible for participation in interscholastic or extracurricular activities during the fall semester.

For students entering ninth grade, a 2.0 cumulative GPA must be maintained for participation in interscholastic extracurricular activities.

The SAT versus The ACT

SAT Reasoning Test – register online at: www.collegeboard.com ($43.00 fee)

Section	Content	Number of Questions	Time
Critical Reading	Extended Reasoning Literal Comprehension Vocabulary in Context Sentence Completions	36-40 4-6 4-6 19	70 minutes (two 25-minute sections and one 20-minute section)
Mathematics	Number and Operations Algebra and Functions Geometry and Measurement Data Analysis, Statistics, and Probability	11-14 19-22 14-16 5-8	70 minutes (two 25-minute sections and one 20-minute section)
Writing	Essay Improving Sentences Identifying Sentence Errors Improving Paragraphs	1 25 18 6	60 minutes (one 25-minute essay, one 25-minute multiple-choice section, and one 10-minute multiple-choice section)

ACT – register online at www.actstudent.org ($44.50 fee includes writing)

Section	Content	Number of Questions	Time
English	**Usage/Mechanics** Punctuation Grammar and Usage Sentence Structure **Rhetorical Skills** Strategy Organization Style	**40** 10 12 18 **35** 12 11 12	45 minutes
Reading	Prose Fiction Humanities Social Studies Natural Science	10 10 10 10	35 minutes
Mathematics	Pre-Algebra Elementary Algebra Intermediate Algebra Coordinate Geometry Plane Geometry Trigonometry	14 10 9 9 14 4	60 minutes
Science	**Biology, Chemistry, Earth/ Space Sciences, Physics** Data Representation Research Summaries Conflicting Viewpoints	 15 18 7	35 minutes
Writing	Essay	1	30 minutes

Competitive scores:

@ UCF: Fall 2007 class	SAT scores = 1160-1280	ACT = 24-28
@ FSU: Fall 2007 class	SAT scores = 1140-1280	ACT = 25-28

Juniors should begin practicing during semester 1 and take the SAT or ACT during semester 2.

Seniors should take the SAT or ACT for the last time either October or November. College applications are typically due November 1.

SCPS Summer School 2008 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 2008 will be held at all high school sites except Seminole and Oviedo due to construction at those sights.
- Some courses will only be offered at designated schools to assure the potential of the course being offered (25 or more students).
- Registration for summer school is available on April 7th 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. Late registration will be held at each summer school site on Thursday, June 12, 2008 from 8 a.m. until 11 a.m.
- Classes will be scheduled on a space available basis and the ability to hire a certified teacher.
- Students may not be absent from summer school. Any student absent from summer school will be withdrawn and denied credit.

High School Schedule

SEMESTER I:	June 16 - July 3, 2008	7:15 a.m. – 12:30 p.m.
SEMESTER II:	July 7 - July 24, 2008	7:15 a.m. – 12:30 p.m.

For Crooms Students Only . . .

The following courses are only offered to Crooms students during summer school.

Graphic Design
0200300

1 Credit **Grade 9-12**

This course is highly recommended for incoming 9th grade students. It will meet the one-credit performing arts graduation requirement and give students an opportunity to meet other incoming 9th grade students and get indoctrinated into the Crooms way of life. In this course, students learn the elements of art and the principles of design and apply that knowledge through computer software application programs such as Adobe Illustrator and Adobe Photoshop. Students will create graphically designed images and products that communicate ideas through formal, expressive, and conceptual elements.

Networking 6
(Copper and Fiber Optic Cabling)
8207070

1 Credit **Grades 10-12**

This course provides students with knowledge of the cabling system used in the infrastructure for high speed data services, voice, video and security information systems. Students become proficient with unshielded twisted pair, screened twisted pair and coaxial cabling. Students will receive practical knowledge in installing, maintaining and troubleshooting copper based network cabling systems. Students also learn hands-on fiber optic cable splicing, multimode and single-mode polishing standards, how to use an inspection microscope and scribe, polish and inspect connectors.

Crooms Summer School . . . (cont'd)

The following courses are offered only to Crooms students during summer school.

Intensive Reading
1000410

.5 Credits **Grades 10-12**

This course is designed for students who need additional support on reading skills necessary to pass the FCAT. This course focuses on instruction in study skills and test taking skills as well as strategic reading. The course is particularly suited for students who intend to retake the FCAT reading test over the summer.

Intensive Math
1200400

.5 Credits **Grades 10-12**

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. This course is specifically designed for students who need support on FCAT math skills.

AOIT Internship
8207350

1 Credit **Grades 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.

For 9th and 10th Graders - Major Areas of Interest

Beginning with graduating class of 2011, students are required to declare a major during their high school studies. In order to meet the state requirements for completing a major, students should complete four courses within their chosen major. Students should select their major during the registration process and may change majors each year, if necessary, at registration time. Following are the majors offered at all Seminole County Public School high schools. Following this list are the majors specific to Crooms. Students should see their guidance counselors for more information regarding majors.

Advanced Placement Scholar

2106420 - AP American Government
2000340 - AP Biology
1202310 - AP Calculus AB
2003370 - AP Chemistry
0200320 - AP Computer Science
1001420 - AP English Language
1001430 - AP English Literature
2003420 - AP Physics B
2100330 - AP US History
0708410 - AP Spanish
2109420 - AP World History

Language Arts

1001420 - Intensive Reading
1001420 - AP English Language & Composition
1001430 - AP English Literature & Composition
1006300 - Journalism I
1006310 - Journalism II
1006320 Journalism III

Science

2000310 - Biology
2000320 - Biology Honors
2003340 - Chemistry
2003350 - Chemistry Honors
2003310 - Physical Science

Major Areas of Interest (continued)

2003390 - Physics Honors
2002430 - Integrated Science II Honors
2002450 - Integrated Science III Honors
2000430 - Biology Technology
3027010 - Bio Tech I
3027020 - Bio Tech II
8736030 - Bio Tech III
2000340 - Advanced Placement Biology
2003370 - Advanced Placement Chemistry
2003420 - Advanced Placement Physics

Visual and Performing Arts

1304300 - Electronic Music I
1304310 - Electronic Music II
1304320 - Electronic Music III

Visual and Performing Arts (cont'd)

1302420 - Steel Band Class
0200370 - 3-D Computer Modeling
8207410 - New Media and Digital Imaging
8207420 - Digital Video and Sound

World Languages

0708340 - Spanish I
0708350 - Spanish II
0708360 - Spanish III Honors
0708370 - Spanish IV Honors
0708400 - AP Spanish Language
0711300 - Chinese I
0711310 - Chinese II

Crooms Specific Majors

Academy of Information Technology

8209020 - Computing for College and Careers
8207310 - Introduction to Information Technology
8212120 - Business Software Applications 1
8212160 - Business Software Applications 2
8209510 - Digital Design 1/Level 2
8209520 - Digital Design 2/Level 2
8209530 - Digital Design 3/Level 2
8209540 - Digital Design 4
8209550 - Digital Design 5
8207420 - Digital Video & Sound Fundamental
8207410 - New Media and Digital Imaging
8207210 - PC Support 1/Level 2
8207220 - PC Support 2/Level 2
8207020 - Networking 1/Level 2
8207030 - Networking 2/Level 2
8207040 - Networking 3/Level 2
8207050 - Networking 4/Level 3
8207060 - Networking 5/Level 3
8207070 - Networking 6/Level 3
8203051 - AOIT Tech Support/Networking Honors
8206010 - Business Computer Programming 1
8206020 - Business Computer Programming 2
8207320 - AOIT Programming/Database Honors
0200320 - AP Computer Science
COP 2360 - C# Programming (Dual Enrollment)
COP 2362 - Advanced C# Programming (Dual Enrollment)
8207110 - Web Design 1/Level 2
8207120 - Web Design 2/Level 2
8207130 - Web Design 3/Level 2
8207160 - AOIT Web/Digital Media Honors
8215120 - Business & Entrepreneurial Principles Honors

Academy of Information Technology - National Academy Foundation Scholar

8209020 - Computing for College and Careers
8207310 - Introduction to Information Technology
8212120 - Business Software Applications 1
8203051 - AOIT Tech Support/Networking Honors
8207320 - AOIT Programming/Database Honors
8207360 - AOIT Web/Digital Media Honors
8207350 - AOIT Internship

Course Descriptions: Reading

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 WISE software program provides a computerized supplement for independent practice. Placement is based on previous FCAT level and individual fluency assessment.

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 WISE software program provides a computerized supplement for independent practice. Placement is based on previous FCAT level and individual fluency assessment.

10th Grade Intensive Reading
1000410

2 credits **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.

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 WISE software program provides a computerized supplement for independent practice. Placement is based on previous FCAT level and individual fluency assessment.

11th Grade Intensive Reading
1000410

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 WISE 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 Newsweek magazine and Impact to provide practice with vocabulary, reading comprehension, and test taking skills. The WISE software program provides a computerized supplement for independent practice. Placement is based on previous FCAT levels and individual fluency assessment.

Course Descriptions: Fine Arts / Electives

Electronic Music I*
1304300
Prerequisite: None
1 Credit **Grades 10-12**
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 11, 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 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 10-12**
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.

Graphic Design*
0200300
1 Credit **Grades 9-12**
This course is highly recommended for incoming 9th grade students. It will meet the one-credit performing arts graduation requirement and give students an opportunity to meet other incoming 9th grade students and get indoctrinated into the Crooms way of life. In this course, students learn the elements of art and the principles of design and apply that knowledge through computer software application programs such as Adobe Illustrator and Adobe Photoshop. Students will create graphically designed images and products that communicate ideas through formal, expressive, and conceptual elements.

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.

PSAT / SAT Preparation
1001480
Prerequisite: None
.5 Credit **Grades 10-12**
This course will prepare students for taking college entrance exams such as the SAT and ACT. Students will focus on strengthening skills in the following areas: vocabulary, literature, analysis, critical thinking, and test-taking strategies.

*These courses meet the Fine Arts graduation requirement for students graduating in 2011 and beyond.

Course Descriptions: Foreign Language

Spanish I
0708340
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 their listening and speaking skills in Spanish through conversation. Reading and writing skills, focusing on the present tense, will also 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
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
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.

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 their listening and speaking skills in Chinese through conversation. Reading and writing skills will also be emphasized.

Chinese II
0711300
Prerequisite: Chinese I
1 Credit **Grades 10-12**

Chinese II is for students who have successfully completed Chinese I class. It is the second year of a multi-year Mandarin Chinese course. In this class, students will continue to expand their vocabulary in learning Simplified Chinese characters using the Pinyin phonetic symbols to aid in pronunciation. Emphasis will be placed on grammatical rules in sentence structures so that students can write short Chinese essays. Students will also practice daily spoken Chinese to continue to develop their skills in listening, speaking, reading and writing the Chinese language at an intermediate level. The study of Chinese culture is also an important aspect of this language course.

Course Descriptions: Language Arts

English I
1001310
Prerequisite: None

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
Prerequisite: None

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 February) and FCAT Reads (given in March). Students in this course can expect outside reading and writing.

English III
1001370

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.

Course Descriptions: Language Arts & Journalism

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.

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 Senior Summit class. 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.

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 Senior Summit class. 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 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.

Journalism I/Newspaper
1006300
Prerequisite: None

1 Credit **Grades 10-12**

This course is an introduction to publications. Students will be introduced to journalistic media, desktop publishing, layout and design, and photo editing. Students will learn journalism skills including interviewing, reporting on a variety of events, editing for accuracy, and photo journalism. The students will be in charge of publishing the school newspaper, *ITimes* and other literary magazines. Students will be expected to work in teams as well as individuals. Students should be aware that some assignments include activities that are outside of school hours.

Journalism II/Newspaper
1006310
Prerequisite: Journalism I & II

1 Credit **Grades 11-12**

Journalism III/Newspaper
1006320
Prerequisite: Journalism I & II

1 Credit **Grades 11-12**

Digital Design IV / Yearbook
8209540
Prerequisite: none

1 Credit **Grades 11-12**

Students will work on all aspects of the school yearbook (produced in-house) which will include a multimedia CD. This 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 desktop publishing and photo manipulation skills. Participation in this course will require students to be available beyond the school day.

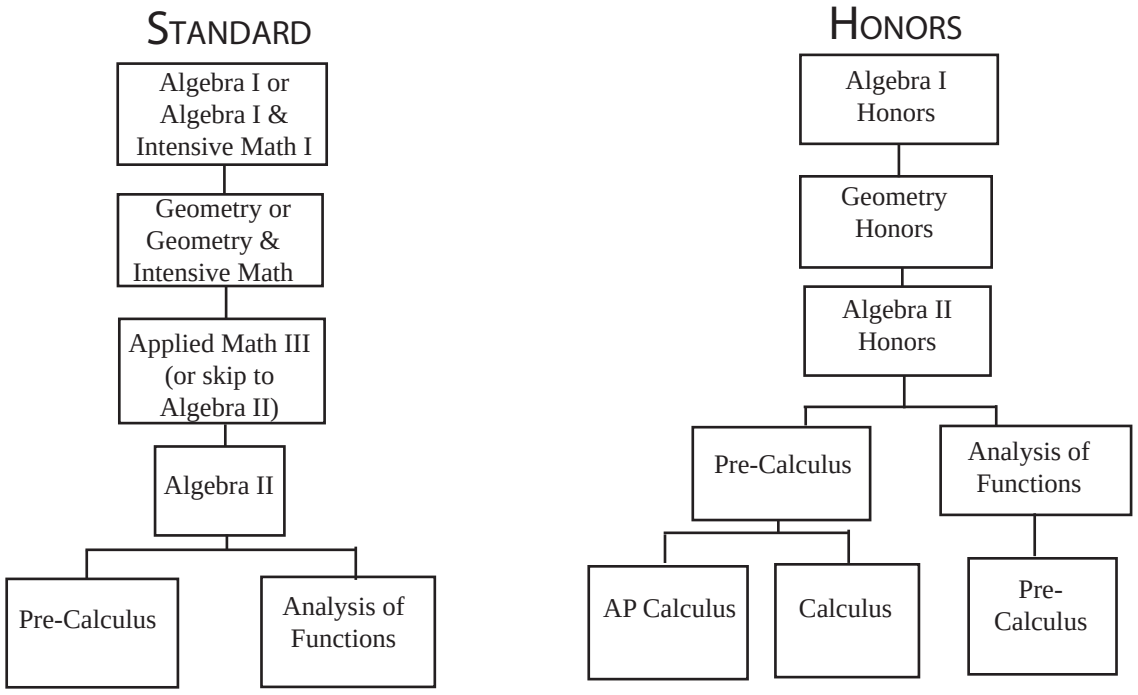
Digital Design V / Yearbook
8209550
Prerequisite: Digital Design IV

1 Credit **Grades 12**

These second year yearbook students will take on leadership positions in the editorial and publishing staff. Students should be comfortable delegating tasks, following up on first year reporters, meeting deadlines, and have an eye for accuracy. Students should be aware that many assignments take place after school hours.

Course Descriptions: Mathematics

Math Course Sequences



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.

Algebra I
1200310
1 Credit **Grade 9**

Algebra I Honors
1200320
Prerequisite: None
1 Credit **Grade 9**

This course is designed to provide the foundation for advanced mathematics courses and develop skills needed to solve mathematical problems. Topics include, but are not limited to, sets, variables, structures and properties of the real number system, first-degree equations and inequalities, relations, functions, graphs, systems of linear equations and inequalities, integral exponents, polynomials, rational algebraic expressions, irrational numbers, radical expressions and quadratic equations.

Course Descriptions: Mathematics

Geometry
1206310
Prerequisite: Algebra I
1 Credit **Grades 9-10**

Geometry Honors
1206320
Prerequisite: Algebra I Honors
1 Credit **Grades 9-10**

Geometry develops critical thinking involving the discovery of relationships and skill in using the deductive method in mathematical situations. Practical applications of geometric skills and concepts in the real world are included. Topics include, but are not limited to, logic and reasoning, the study of Euclidean geometry of lines, planes, angles, triangles, similarity, congruence, geometric inequalities, polygons and circles, area and volume, and constructions.

Applied Math III
1205420
Prerequisite: Geometry
1 Credit **Grades 10-12**

The purpose of this course is to enable students to develop proficient mathematical skills necessary for advanced training in postsecondary programs. Emphasis is on understanding and application of functional mathematics to solve real-world problems.The content includes an introduction to trigonometric relationships, applications of geometric properties and coordinate geometry in the workplace. Students will learn to solve problems with technology, including graphing calculators and computers.

A man to carry on a successful business must have imagination. He must see things as in a vision, a dream of the whole thing.

— Charles Schwab

Students should be aware that Pre-Calculus is the gatekeeper course for 4-year universities and colleges. They want to see Pre-Calc on the transcripts of the students they accept.

Algebra II
1200330
Prerequisite: Geometry
1 Credit **Grades 10-12**

Algebra II Honors
1200340
Prerequisite: Geometry
1 Credit **Grades 9-11**

This course is designed to continue the study of the structure of algebra, providing the foundations for applying these skills to other mathematical and scientific fields. Topics include, but are not limited to, the review and extension of the structure and properties of the real number system, relations, functions and graphs, polynomials and rational expressions, quadratic equations and inequalities, conic sections, functions, rational and irrational exponents, logarithms and complex numbers. These courses are taught utilizing graphing calculators.

Analysis of Functions
1201310
Prerequisite: Algebra II
1 Credit **Grades 11-12**

This course is designed for college-bound students as a continuation and strengthening of Algebra II skills. Topics will include statistical measure, distribution and graphs, polynomial and rational functions, exponential and logarithmic functions, probability measures and distribution. This course is taught utilizing graphing calculators.

Course Descriptions: Math & Physical Education

Pre-Calculus
1202340
Prerequisite: Algebra II

1 Credit **Grades 11-12**

This course is designed to provide a foundation for the student of calculus. Topics include, but are not limited to, an analysis of algebraic, exponential, and trigonometric functions, introduction to limits, probability and statistics, vectors, matrices, analytic geometry, polar and parametric equations, complex numbers and infinite series. This course is taught utilizing graphing calculators.

Calculus
1202300
Prerequisite: Pre-Calculus

1 Credit **Grades 12**

This course is designed to provide a foundation for the student of advanced mathematics. Topics include, but are not limited to, elementary functions, limits and continuity, derivatives, differentiation, applications of the derivative, antiderivatives, definite integral and applications of the integral. This course is taught utilizing graphing calculators.

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 logarighmic) 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.

Life Management Skills
0800300
Prerequisite: None

.5 Credit **Grades 9-12**

Health Life Management Skills is an interactive course designed to provide instruction in nutrition, diseases, substances, human reproduction, life cycle, relationships, communications, conflict resolution, family responsibilities, community health, consumer issues, media, the fundamentals of first aid and safety, health care products and special topics involving technology in the health field. This course is required for graduation.

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.

Basketball
1503310
Prerequisite: None

.5 Credit **Grades 9-12**

The purpose of this course is to teach basic knowledge, fundamental skills and the the technique of the game. Emphasis will be on skill technique, strategies of the game (offense/defense), rules, history, and safety practices. All aspects of the game will be addressed including the improvement or maintaining of one's personal fitness (cardiovascular, muscular strength and endurance).

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.

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 and continues to cover topics taught in Team Sports I.

Beginning Weight Training
1501340
.5 Credit **Grades 10-12**

The purpose of this course is to enable students to acquire basic knowledge and skills in weight training, improve muscle strength and endurance, and begin to enhance self-image.

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 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.

Intermediate Weight Training
1501350
Prerequisite: Beginning Weight Training
.5 Credit **Grades 11-12**

The purpose of this course is to enable students to develop intermediate-level knowledge and skills in weight training, further improve muscular strength and endurance, and further enhance self-image. The content includes safety practices, terminology, musculoskeletal system, muscular strength and endurance, weight training activities for fitness, fitness assessment, and nutrition.

Advanced Weight Training
1501360
Prerequisite: Intermediate Weight Training
.5 Credit **Grades 11-12**

The purpose of this course is to enable students to develop advanced knowledge in weight training, further improve muscular strength and endurance, and further improve self-image. The course continues to develop topics addressed in Intermediate Weight Training.

Course Descriptions: Science

Biology I
2000310
Prerequisite: None

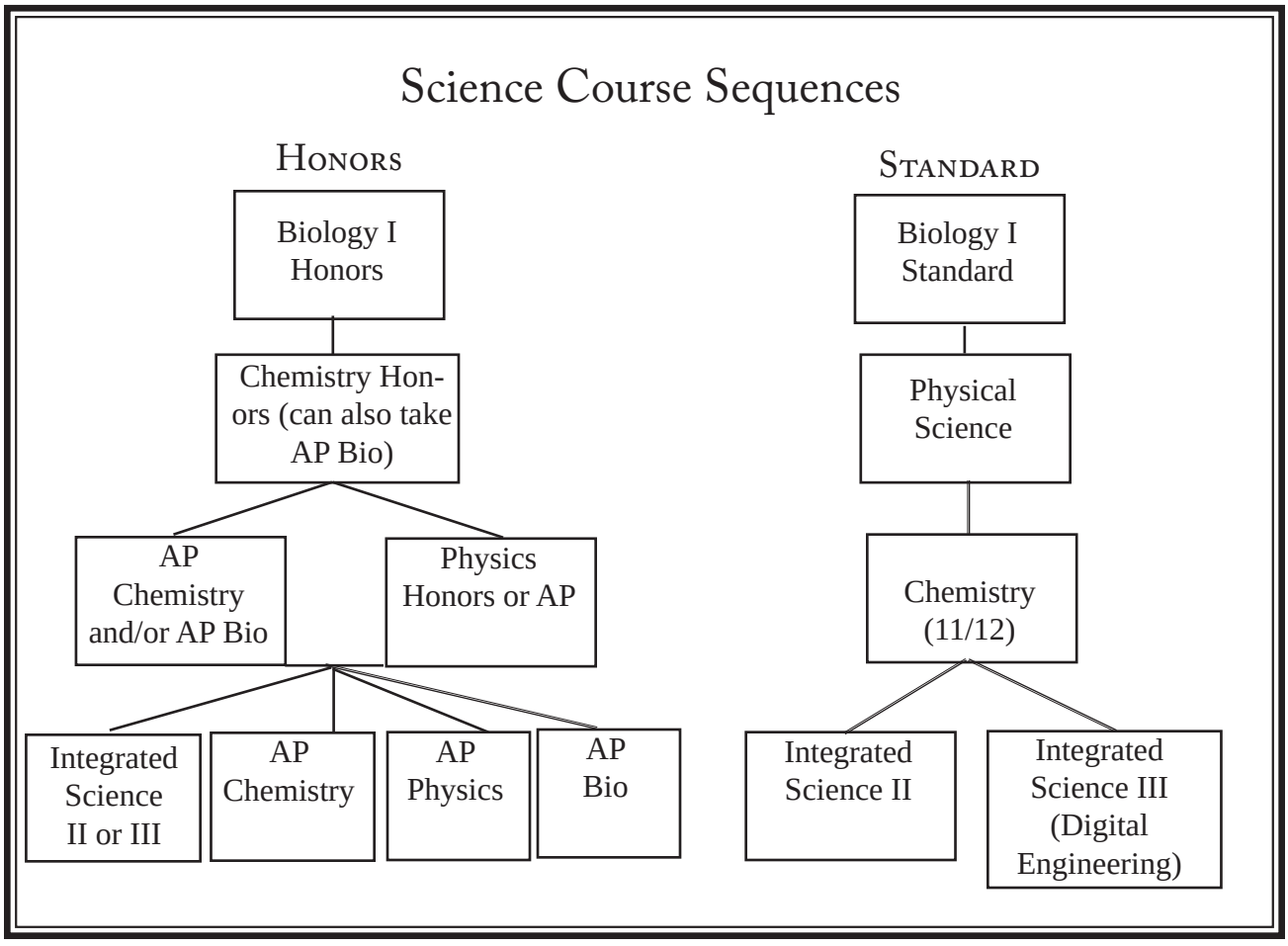
1 Credit **Grade 9**

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.

Biology I Honors
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.



Course Descriptions: Science

Chemistry I
2003340
Prerequisite: Physical Science

1 Credit **Grades 11-12**

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.

Physical Science
2003310
Prerequisite: Biology

1 Credit **Grade 10**

The purpose of this course is to provide opportunities to study the concepts of matter, energy, and forces, and their applications through exploratory investigations and activities.

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 II
2002450

1 Credit **Grades 12**

The purpose of this course is to give students the opportunity to participate in a hands-on, project-based science course that combines cooperative learning and community service as a venue for applying scientific thinking and experiments. Students construct science knowledge by formulating questions, making predictions, planning experiments, making observations, classifying, interpreting, and analyzing data, drawing conclusions, and communicating.

Integrated Science III: Digital Engineering
2002450

1 Credit **Grade 12**

This course is part of The Infinity Project, an innovative, year-long program that sparks students to pursue careers in engineering and technology. This course integrates state-of-the-art engineering and advanced technology into the high school classroom.

Course Descriptions: Science & Social Studies

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**

Content includes, but is not limited to, the structure of matter, the states of matter, chemical reactions, and descriptive chemistry.

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.

"Nothing has so much power to broaden the mind as the ability to investigate systematically and truly all that comes under your observation in life."
-Marcus Aurelius

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.

Course Descriptions: Social Studies

AP American History
2100330
Prerequisite: None
1credit **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**

American Government Honors
2106320
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.

Economics
2102310
Prerequisite: None
.5 Credit **Grade 12**

Economics Honors
2102320
Prerequisite: None

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.

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.

"History, despite its wrenching pain, cannot be unlived, but if faced with courage, need not be lived again."
-Maya Angelou

Course Descriptions: Technology / Foundation

Look for These Symbols

When choosing courses, look for the following symbols to determine which classes will give you the opportunity to earn a Gold Seal scholarship or to earn college credit through the Tech Prep program. Both programs are explained more fully on pages 15 & 16 of this guide.

Gold Seal — Course qualifies for the Gold Seal scholarship. 3 of these courses, in a series, must be taken.

Tech Prep — Course qualifies for college credit through the Tech Prep program.

Dual Enrollment — Course qualifies for dual enrollment through Seminole Community College.

The following two courses are required courses for all 9th graders.*

AOIT Intro to Information Technology
Gold Seal
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.

* Students may choose to take a Computing for College & Careers proficiency exam before beginning their 9th grade year. If they pass, they will be placed in Business Software Applications I instead of CCC.

Computing for College & Careers
Gold Seal
8209020
Prerequisite: None
Tech Prep
1 Credit **Grade 9**

This course is designed to provide a basic overview of current business and information systems and trends and to introduce students to the basic skills and foundations required for today's business environments. Emphasis is placed on developing proficiency with touch keyboarding and fundamental computer applications, so that they may be used as communication tools for enhancing personal and workplace proficiency in an information-based society. This is a required course for all AOIT students. **Exemption through pre-test is an option.***

PC Support 1
Gold Seal
8207210
Prerequisite: CCC and 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.

PC Support 2
Gold Seal
8207220
Prerequisite: PC Support 1
1 Credit **Grade 11**

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.

Course Descriptions: Technology / Foundation

All 10th grade students are required to take either PC Support or AOIT Technical Support.

9th grade students who pass a CCC proficiency test are required to take Business Software Applicaions I in its place.

AOIT Technical Support /Networking Honors
(A+ Computer Hardware and Operating Systems)
8203051
Prerequisite: Intro to IT
1 Credit **Grades 10–12**

Gold Seal

Dual Enrollment

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.

AOIT Internship
8207350
Prerequisite: None
1 Credit **Grade 12**

Gold Seal

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 Software Applications 1
8212120
Prerequisite: CCC, Intro to IT
1 Credit **Grades 10–12**

Gold Seal

Tech Prep

This course is designed to develop proficiency in using the advanced features of software programs to perform office-related tasks. Students will continue to improve their knowledge and computer skills in word processing, spreadsheets, databases, e-mail, Internet browsers, multimedia presentations, web publishing and digital publishing.

Business Software Applications 2
8212160
Prerequisite: Business Software Applications 1
1 Credit **Grades 10–12**

Gold Seal

Tech Prep

This course is designed to use technology to produce high quality employment portfolios, research job opportunities, and compile and disseminate job-seeking documents. Students will continue to improve their knowledge and computer skills in word processing, spreadsheets, databases, e-mail, Internet browsers, multimedia presentations, web publishing and digital publishing.

Business and Entrepreneurial Principles Honors
8215120
Prerequisite: CCC or BSA I
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: Computer Applications

Gold Seal

Digital Design 1
8209510
Tech Prep
Prerequisite: CCC or BSA 1
1 Credit **Grades 10–12**

This course introduces students to the study of appropriate digital media and other topics. Students will electronically create and publish newsletters, flyers, greeting cards, calendars, brochures, stationery, and more in this multisoftware course. Students will participate in a work-based learning experience. Software taught during the course will include Adobe InDesign and Adobe Photoshop.

Gold Seal

Digital Design 2
8209520
Prerequisite: Digital Design 1
1 Credit **Grades 11–12**

This course continues the development of basic entry-level skills required for careers in the digital publishing industry. Content includes layout, and design activities; decision-making activities; and digital imaging. Software taught during the course will include Photoshop, Illustrator as well as InDesign. Students will also create projects for use in the school and community.

Gold Seal

Digital Design 3
8209530
Prerequisite: Digital Design 2
1 Credit **Grade 12**

In this course students will apply their knowledge of InDesign and graphic arts software to create and publish real projects for teachers, businesses and community.

3-D Computer Modeling
0200370
Prerequisite: none
.5 Credit **Grades 10–12**

Students will develop a basic understanding of the use and function of three dimensional art in the entertainment industry. Students will use 3D animation and sculpting programs to design visual presentations for use in computer animation, live action film effects integration, and model creation for computer entertainment industry.

Gold Seal

Web Design 1
8207110
Dual Enrollment
Prerequisite: CCC or BSA 1
1 Credit **Grades 10–12**

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.

Gold Seal

Web Design 2
8207120
Prerequisite: Web Design 1
1 Credit **Grades 10–12**

This course provides advanced skills for Internet, Intranet, and Web Design by enhancing and enriching the concepts of web page layout and theory. Students learn to use Macromedia Dreamweaver to design and lay out web pages. They will learn to use Macromedia Flash and Fireworks to produce web page animation and graphic-rich, interactive web sites.

Gold Seal

Web Design 3
8207130
Prerequisite: Web Design 2
1 Credit **Grades 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.

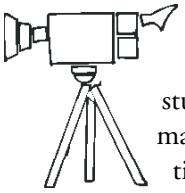
AOIT Web/Digital Media – Honors
Gold Seal
8207160
Prerequisite: Web Design 2
1 Credit **Grade 12**

This course focuses on digital media and advanced web tools. The content includes information technology career research; advanced HTML, DHTML, and XML commands and web page design; advanced web topics such as webscripting and web server administration; and basic multimedia applications including audio, video, graphics, text, and animation tools.

Course Descriptions: Computer Apps & Science

Digital Video and Sound
8207420
Prerequisite: CCC or BSA 1
1 Credit **Grades 11–12**

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.



Multimedia Technologies
0107400
Prerequisite: Digital Video and Sound
1 Credit **Grade 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.

Business Computer Programming 1 (Visual BASIC)
Gold Seal
Dual Enrollment
8206010
Prerequisite: CCC or BSA 1
1 Credit **Grades 10–12**

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++)
Gold Seal
8206020
Prerequisite: Bus. Comp. Programming 1
1 Credit **Grades 11–12**

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.

AOIT Programming/Database Honors
Gold Seal
Tech Prep
8207320
Prerequisite: CCC or BSA 1
1 Credit **Grades 11–12**

This course is designed to provide the foundation for future software engineers or DBAs. It is a two semester course from the Oracle Academy. The first semester, DataBase Fundamentals, takes business requirements and transforms them into an operational database. Content includes creation of Entity-Relationship Diagrams, mapping information into a relational database design, the creation of relationship tables and composition of a formal design presentation. The second semester, Data Control Functions, introduces data-server technology and Structured Query Language. Content includes creation and maintenance of database objects, storage retrieval and manipulation of data using SQL. At the completion of the course, students will be able to create reports and data management applications and sit for the Oracle 10g certification.

C# Programming COP2360
Dual Enrollment
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 plymorphism.

Advanced C# Programming COP2362
Dual Enrollment
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.

Course Descriptions: Computer Science Networking

Introduction to Wireless Programming
COP1651C
1 Credit **Grades 11–12**

Dual Enrollment

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.

Gold Seal

Networking 1
(Cisco Networking 1)
8207020

Dual Enrollment

1 Credit **Grades 9–12**

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.

Gold Seal

Networking 2
(Cisco Networking 2)
8207030
Prerequisite: Networking 1

Dual Enrollment

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.

Introduction to Wireless Technologies
CET1854C
1 Credit **Grades 11–12**
Prerequisites: Net 1 and 2

Dual Enrollment

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.

Introduction to IP Telephony
CET1675C
1 Credit **Grades 11–12**
Prerequisites: Net 1 and 2

Dual Enrollment

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.

Networking 3 Honors
(Microsoft)
8207040

Gold Seal

Prerequisite or Concurrent Enrollment: CCC or BSA 1
1 Credit **Grades 11–12**

This course is designed to prepare students to apply and understand the basics of the Microsoft Windows XP Client Software. The course covers the XP environment, installing and configuring XP, securing XP, troubleshooting, supporting applications, interoperability, and printing. Students will install, configure, customize, optimize, integrate a network and troubleshoot Windows XP in a single-domain environment.

Course Descriptions: Networking

Networking 4 Honors
(Microsoft)
8207050
Prerequisite: Networking 3

Gold Seal

1 Credit **Grade 12**

This course is designed to provide students with the necessary skills to plan, analyze, optimize, and troubleshoot Windows XP Server in an Enterprise Environment. Students will also gain understanding of the internal and network architecture of Microsoft Windows XP. Students will set up, configure, use, and support Transmission Control Protocol/Internet Protocol (TCP/IP) on Microsoft Windows XP operating system in a networked environment.

Introduction to UNIX/C Programming
(Networking 5 Honors)
8207060
Prerequisite: CCC or BSA 1

Gold Seal

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, C programming, and shell scripts.

Offered at Summer School Only

Networking 6 Honors
(Copper and Fiber Optic Cabling)
8207070
Prerequisite: CCC or BSA 1

Gold Seal

1 Credit **Grades 10–12**

This course provides students with knowledge of the cabling system used in the infrastructure for high speed data services, voice, video and security information systems. Students become proficient with unshielded twisted pair, screened twisted pair and coaxial cabling. Students will receive practical knowledge in installing, maintaining and troubleshooting copper based network cabling systems. Students also learn hands-on fiber optic cable splicing, multi-mode and single-mode polishing standards, how to use an inspection microscope and scribe, polish and inspect connectors.

On the Job Training

Seniors who have met all other graduation requirements and would like to schedule additional period(s) in their AOIT internship, may sign up for this course. Students can earn high school credit while working in a cooperative situation with a business, but only after they have fulfilled their internship requirments.

Business Cooperative Education - OJT
8200410
Prerequisite: CCC or BSA 1

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.

Four Year Plan

SUBJECTS	Crooms Graduation Requirement	Recommended for College*	GRADE 9	GRADE 10	**GRADE 11	GRADE 12
English	4	4	English I	English II	English III AP Lang. & Comp.	English IV AP Lit. & Comp.
Math	4	4	Algebra I, Geometry or Algebra I with Intensive Math	Geometry Algebra II Pre-Calculus	Adv. Topics in Math Algebra II Pre-Calculus Calculus	Advanced Topics Algebra II Analysis of Function Pre-Calculus Calculus or AP Calc
Science	4	4	Biology	Physical Science Chemistry AP Biology	Physics Chemistry AP Chemistry AP Physics AP Biology	Integrated Science 2 or 3 Physics AP Chemistry AP Physics AP Biology
Social Studies	3	3		World History AP World History	American History AP American History	Economics / Amer. Govt. AP Amer. Govt.
Personal Fitness**	.5	.5	Personal Fitness			
Physical Education	.5	.5	Team Sports Recreational Act. Weight Training Basketball	Team Sports Recreational Act. Weight Training Basketball	Team Sports Recreational Act. Weight Training Basketball	Team Sports Recreational Act. Weight Training Basketball
Performing/Fine Art***	1	1		Digital Music 1 Graphic Design Steel Band	Digital Music 1, 2 Graphic Design Steel Band	Digital Music 1-3 Graphic Design Steel Band
Foreign Language		2	Spanish I Spanish II	Spanish I Spanish II Spanish III	Spanish I - IV AP Spanish	Spanish II - IV AP Spanish
Required IT Elective	4		Computing for College and Careers	PC Support or A+		Internship (strongly recommended)
IT Elective (software applications)			BSA I	BSA 1-2 Web Design I Digital Design I Digital Music I Graphic Design Digital Video 3-D Modeling	BSA 1-2 Web Design 1-3 Digital Design 1-2 Digital Music 1-2 Graphic Design Digital Video 3-D Modeling	BSA 1-2 Web Design 1 -4 Digital Design 1-3 Digital Music 1-3 Graphic Design Digital Video 3-D Modeling
IT Elective (networking & programming)				Networking 1 & 3 BC Programming 1	Networking 1 - 5 B.C.P. 1-2 SQL C# (dual enroll) A.P. Comp. Science	Networking I-V Dual Enroll Networking, B.C.P. 1-2, SQL AP Comp. Science, Dual Enroll Programming
Total	26					

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

**Students graduating in 2009 and 2010 still need a semester of Life Management, along with Personal Fitness.

***Students graduating in 2011 and beyond need one credit of a Performing/Fine Art such as Digital Music or Graphic Design.