Pre IB Prep, Science, Technology, Engineering, Math Magnet

2019-2020
Curriculum Guide
Welcome to our Pre IB-Prep. Math Science Technology Magnet School where we educate the whole child with excellence in academics, character education, and wellness.

VISION
(What we hope to become)

The school where every student is a STEM student and every teacher is a STEM teacher.

MISSION
(Why we exist)

There is an increasing need in Florida and throughout the country, to ensure students have the future ready skills to compete in a globally competitive economy and meet the needs of the workplace. The future of the economy is in STEM related careers. The U.S. Bureau of Labor Statistics indicates that employment in STEM occupations are projected to grow more than 9 million between 2012 and 2022.

The mission of Sanford Middle School Math, Science, & Technology Magnet is to develop a more widely and diversely populated pipeline of students, with future ready skills, interested in STEM careers in an innovative, safe, and supportive learning environment. Where every student can think critically, and connect and apply STEM principles in order to solve real-world problems, through rigorous and relevant learning experiences across all disciplines.

VALUES
(What we believe in the whole child)

Every student deserves to be HEALTHY
Every student deserves to be SAFE
Every student deserves to be ENGAGED
Every student deserves to be SUPPORTED
Every student deserves to be CHALLENGED

BYRON DURIAS
Principal
Welcome to Sanford Middle School
Pre IB Prep, Science, Technology, Engineering, Math Magnet

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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. Multiple enrollment criteria includes, but is not limited to, self-selection, teacher recommendation, previous academic success, and standardized or state test scores. Where applicable, prerequisite course completion is required.
Registration Information

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 6th grade students: A guidance counselor will be visiting all elementary schools with 20 or more students coming to SMS to work through the registration process. Parents and students wishing to obtain more information regarding the school program and course selections should contact Sanford Middle School.

Guidelines

1. Review 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. Check off your required course selections. Make sure to include level of courses selected.
6. Rank order your electives you have selected.
7. Once your registration form is complete, have your parent/guardian sign it and return the form to your guidance counselor.

Schedule Change Policy

Sanford Middle School utilizes the Seminole County Public School automated scheduler to establish student schedules. The automated scheduler is programmed to insure equity and balanced class sizes. Schedule changes will be made to correct misplacement; however, accommodations are not made to allow for parental preferences for teachers. Also, schedule changes will not be made for elective choices if the class was one of the students numbered choices on their registration form. Schedule-related problems should be discussed with the assigned guidance counselor and changes should be made within the first ten days of each semester. Every effort is made to place students into elective classes of their choice. However, sometimes due to scheduling conflicts this isn't possible.

Administrative Changes

Sanford Middle School 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. Students scoring level 1 or 2 in Math or Reading on the standardized state test will be placed in an intensive program. Every effort will be made not to disrupt the educational process when such changes become necessary.

Registration

General Information: This information describes the requirements for students for three years at SMS.

[ESE and ESOL students will be placed in their appropriate Core Academic Course based upon their I.E.P].

Required Courses-All students at SMS take four (4) core academic courses each year [math, language arts, science, and social studies]. All students are required to become proficient in computer applications. All students are required to take one-semester of physical fitness during 6th and 7th grades.

Technology: Students are required to demonstrate competence in technology by being able to "keyboard" at a minimum of 30 words per minute and effectively do word processing, spread sheets, data-base, and PowerPoint.

Choices- SMS provides many choices for students and parents concerning their education. They are as follows:

Academic Choices

While all students are required to take the four core academic courses each year, there are three general courses of study: Standard, some advanced level courses, or International Baccalaureate Preparatory Program (all advanced level courses and Foreign Language), which is available to academically challenge students and to prepare them for the International Baccalaureate Program at Seminole High School. The SCPS Pre-IB program follows a different, more rigorous and faster paced curriculum than the standard level course. Therefore, students will be expected to invest more time in homework, projects, and research activities as well as perform at a higher level.
General Information

Middle School Student Progression Plan Information

1. Middle School Instructional Program – Florida State Standards serve as the foundation of the middle school curriculum for the Seminole County Public Schools. Student mastery of subject area content consists of such things as teacher observation, classroom assignments, tests, and exams.

2. Core Academic Program Requirements – Middle school students are required to receive 3 years of instruction in language arts, math, science, and social studies.

3. Additional Instructional Program Requirements – Middle school students have the opportunity to participate in regularly scheduled physical education classes, as well as exploratory, enrichment, and elective classes.

4. Grouping for Instruction – Flexible grouping of middle school students that is developmentally appropriate, ethnically diverse, and instructionally sound is encouraged to increase student achievement. Any grouping of students must provide opportunities for regrouping of students during the school day in order to prevent the segregation or isolation of any student subgroup.

5. Advanced Classes – Enrollment in advanced core academic classes is open to any student who wishes to take on the challenge of a more rigorous curriculum that prepares students for higher level courses in high school. Advanced classes are offered in math, language arts, science, and social studies.

6. Vertical Acceleration – Students demonstrating highly exceptional academic capabilities may be enrolled in single above-grade level courses or be promoted to a grade level above their current placement. Parents must petition the principal for permission for vertical acceleration. The principal will use the criteria identified in the Student Progression Plan to determine if vertical acceleration is appropriate. These decisions are made on a case-by-case basis and the decision of the principal is final.

7. Remediation – Students who are not performing at grade level will be enrolled in intensive reading, and/ or intensive math classes. Administration may substitute an intensive class for any elective course on a student’s schedule.

8. Student Promotion – Middle school students must earn a yearly 2.0 Grade Point Average and pass all annual courses to earn promotion from one grade to the next.

Eighth grade students enrolled at middle school taking high school credit courses will be graded in accordance with the high school grading policy. In addition, Sanford Middle School students may take high school Environmental Science Honors, Geometry, Algebra I, Digital Information Technology, Spanish I for high school credit.

Virtual School

For the 2019-20 school year, SCPS will provide full-time virtual instruction options to students in grades K-12. Enrollment will be open from Mon., April 1, 2019 to Wed., August 7, 2019. For more information, please see your guidance counselor or visit: http://virtualschool.scps.k12.fl.us.
Middle School Grade Placement

Promotion: Middle school students must pass the final end of the year grade in all academic and elective courses by earning a final quality point average of not less than 0.75 for any course, and earn an overall 2.0 grade point average on a 4.0 scale in order to be promoted. Final grades for each subject taken will be used to calculate the grade point average.

Assignment: Students who do not meet the criteria for promotion may be assigned to the next higher grade by the principal after due consideration of relevant factors, which may include, but are not limited to, input from the student’s teachers, counselor, parent, successful student participation in remediation activities and/or summer school (8th students grade only), and planned interventions.

Retention: A student who has not been promoted or assigned will be retained.

Career Awareness is taught as part of our 7th grade Computer Applications Course.

High School Credit

Students may be awarded high school credit in the eighth grade for the following courses:

Algebra I - The student must successfully complete the course and demonstrate mastery of the Sunshine State Standards. Students may retake Algebra I for grade recovery and credit during the regular 9th grade school year.

Algebra I Honors - The student must successfully complete the course and demonstrate mastery of the Florida State Standards. Students may retake Algebra I for grade recovery and credit during the regular 9th grade school year.

Geometry I Honors - [Prerequisite: Algebra I Honors] The student must successfully complete the course and demonstrate mastery of the Florida State Standards. Students may retake Geometry for grade recovery and credit during the regular 9th grade school year.

PRE-IB Spanish I - Year long 8th grade course. Must be an IB student.

Spanish 1 – Year long 8th grade course.

Environment Science - The student must successfully complete the course and demonstrate mastery of the Florida State Standards (EOC). Students may retake Environmental Science Honors for grade recovery and credit during the regular 9th grade school year.

Digital Information Technology - Year-long course includes MOS (Microsoft Office Specialist) certification in Word, Excel and PowerPoint.

Grades earned in high school credit courses will reflect on high school transcripts. As indicated in the Student Progression Plan, students are unable to drop a high school credit course after the first quarter.

Academic Courses

NOTE: Enrollment in advanced-level courses is open to any student but enrollment in Pre-IB Prep requires an application process. To be classified as Pre-IB Prep, a student would need to take all Pre-IB Prep academic courses. A student may take selected Advanced/Gifted & Talented courses and their school records will indicate the advanced designation for those courses. These courses were developed to meet the needs of students seeking a more rigorous course of study through an in-depth study of these subjects utilizing more challenging reading, writing, and research assignments. Some indicators of student success in advanced-level or Pre-IB Prep courses and standardized or state test scores, performance in previous courses, and teacher recommendation. Student motivation, commitment to hard work, and interest are important factors in a student’s success. *Please note Gifted and Talented level courses are more rigorous and students will endure a faster pace regarding content covered*

Standardized Testing

Florida Standards Assessment - The Florida Standards Assessment (FSA). The FSA is administered during the second semester and assesses high-level, challenging state standards in assessing mastery of Language Arts (Reading, Language, and Listening), Math, and Writing. This test assesses higher order skills and state standards.

FSA Testing

Writing
Grades 6-8 FSA ELA

Reading, Language, and Listening
Grades 6-8 FSA ELA

Mathematics
Grades 6-8 FSA

End of Course Exams (EOC) are administered at the end of select High School level courses: (Algebra 1, Algebra 1 Honors, Geometry Honors). **All 7th grade students are administered an (EOC) exam in Civics.
Course of Study

Student Performance Standards:
Seminole County Public Schools incorporate the Florida State Standards as district standards and academic outcomes are developed and/or revised for grades 6 - 8 in the core curriculum subjects of math, science, social studies, and language arts. It is the responsibility of the classroom teacher to provide instruction and assessment of student mastery of the district standards and academic outcomes in each course. Assessment of mastery consists of teacher observation, classroom assignments, and examinations. In addition, criterion referenced district level testing may be used to establish baseline data and assess student achievement.

Special Programs

English for Speakers of Other Languages (E.S.O.L.)
The E.S.O.L. program is designed to meet the immediate communication needs, as well as the academic needs, of students whose native language is other than English and have limited or no proficiency in the English language. The students served by the program as determined by the established criteria will receive instruction as described in the English for Speakers of Other Languages Procedural Handbook.

Intensive Reading
This course is designed to improve the reading skills of students who are functioning below grade level. The course encompasses phonics, reading comprehension, fluency, vocabulary, phonemic awareness. All students scoring at level 1 or 2 on the previous standardized state test will be placed in this course. Students who score at level 3 but have a high probability of regressing to levels 1 or 2 may be provided the opportunity for additional support in our reading program.

Intensive Math
This course uses a problem-centered approach to teaching that accelerates student learning of math concepts and strengthens their math skills so they can become proficient in math. All students scoring at level 1 or 2 on the previous years standardized state test will be placed in this course as a supplement to their grade level math course. Students who score at level 3 but have a high probability of regressing to levels 1 or 2 may be provided the opportunity for additional support in our reading program.

Attendance
After an absence, immediately upon return to school but no later than two (2) school days following an absence, the student must provide the school with documentation indicating that one of the following has occurred if he/she wishes that absence(s) to be excused:

- Medical treatment by a licensed physician*
- Observance of a religious holiday
- Law enforcement order or court subpoena
- Death of a family member
- Natural disaster
- Traffic accident that directly involves the student

Extraordinary circumstances or situations, prearranged and with Principal permission.

Parents/guardians of students are expected to provide an explanation of their child’s absence(s) from school whenever such absences occur without the permission of the principal.

*Note 1: It is understood that on every occasion of sickness, a student will not require medical attention by a licensed health care professional. Short term, non-chronic illnesses may be documented/explained via a signed parent note. In such circumstance, the student shall suffer no academic penalty, provided that all course work, examinations, etc. are made up within a reasonable period of time. For continued absence due to illness of 10 or more days, a doctor/health professional’s note is required.

*Note 2: A “reasonable period of time” to make-up work is defined as: At a minimum, the student shall have no less than the number of days he/she was absent plus 1 day to complete and hand in makeup work for credit. Specific arrangements must be made with the student’s teacher.

*Note 3: A student who is absent is required to make up all course work missed, regardless of whether the absence is excused or unexcused. It is the student’s responsibility to obtain assignments upon returning to class immediately following an absence.
Seminole County Public Schools Pre-International Baccalaureate Preparatory Program

- The SCPS Pre-International Baccalaureate Prep program is available to academically challenge students and to help prepare students for honors, Advanced Placement, or International Baccalaureate high school courses/program.
- The SCPS Pre-IB Prep program is usually taken by college-bound students who want to be academically challenged and to be immersed in an accelerated program.
- These courses follow a different, more rigorous and faster paced curriculum than the standard level course strand.
- No entrance requirements are mandated, however, students are required to maintain a 3.0 (B average) to remain in the program. There is support to assists students who experience some difficulty and every effort is made to ensure the success of our students. Successful completion of the SCPS Pre-IB Prep program at Sanford Middle will allow acceptance into the IB program at Seminole High or Winter Spring High based on zoning criteria.
- Application forms are available in all elementary and middle school guidance offices and at the Educational Support Center.
- Bus transportation is provided to all students living more than 2 miles from the school.

The SCPS Pre-IB Prep Program

- The SCPS Pre-IB Prep program prepares students for the International Baccalaureate Program at the 11th and 12 grade levels at Seminole High School. The advantages of the IB program include:
  - Rigorous academic preparation for college
  - An internationally recognized diploma honored by colleges and universities throughout the world
  - Advanced placement and course credit (as much as one year) in many prestigious colleges and universities
  - Examinations based on international standards and evaluated by international educators
  - Curriculum taught from a global perspective incorporating the best educational elements from around the world
  - A sense of accomplishment in meeting the challenge of an international standard of excellence
  - Participation in an interdisciplinary team of dedicated students
  - A world class education in Seminole County
- SCPS Pre-IB Prep teachers follow the course-specific Scope & Sequence.
- Community Service—the goal of community of service in a SCPS Pre-IB program should be develop a service mind-set. Students are required to complete a minimum of 15 Community Service hours per year, 10 of which may be completed in the summer prior to the upcoming school year. This can be done when it is incremental and transitional, and when we give students the opportunity to do community service. Middle School students should be provided a community service environment that is safe and fosters the sense of service. Community service opportunities at school provides a safe environment.
### Three-Year Overview

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<th>Advanced, Gifted, Standard Programs</th>
<th>SCPS Pre-International Baccalaureate Prep Program</th>
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<td><strong>7th Grade</strong></td>
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<td>Math</td>
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<td>Comprehensive Science 1*</td>
<td>Comprehensive Science 2*</td>
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<td>World History*</td>
<td>Civics*</td>
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<td>Lang. Arts*</td>
<td>U.S. History*</td>
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<td><strong>8th Grade</strong></td>
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<td>SCPS/Pre-IB Math Or</td>
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<td>Or</td>
<td>SCPS/Pre-IB Algebra</td>
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<td>Algebra I Standard</td>
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<td>Comprehensive Science 1</td>
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<td>SCPS/Pre-IB World History</td>
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<td>SCPS/Pre-IB 6TH Grade Spanish</td>
<td>SCPS/Pre-IB 7TH Grade Spanish</td>
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| **6th Grade**                       | **7th Grade**                                 |
| Physical Fitness                   | Physical Fitness                             |
| iJourney                            | iJourney                                     |
| or iChallenge                      | iConnect or iChallenge                       |

| **6th Grade**                       | **7th Grade**                                 |
| Band I                              | Chorus I                                     |
| Band II                             | Art I                                        |
| Band III                            | Art II                                       |
| Band III                            | Drama I                                      |
| Band III                            | Conversational Spanish                      |
| Jazz Band                           | Drama II                                     |
| Guitar I                            | Spanish 1 (Non-Pre-IB – HS Credit)          |
| P.E.                                | Creative Writing I Yearbook                  |
| Field Sports                       | Basketball                                   |
| Flag Football                      | Weight Training—(8th grade only)            |
| Pre-Medical I                      | Aeronautics I                               |
| Pre-Medical II                     | Aeronautics II                              |
| Pre-Medical III                    | Aeronautics III                             |
| Pre-Veterinary I                   | Ecology                                      |
| Pre-Veterinary II                  | SEED                                         |
| Pre-Veterinary III                 | Robotics I                                  |
| Sports Medicine                    | Robotics II                                 |
| Video I                            | Robotics LEGO Team                          |
| Video II                           | Engineering Design/Makerspace               |
| Video III                          | Bicycle                                       |

### Required Non-Core Academic

| **6th Grade**                       | **7th Grade**                                 |
| Physical Fitness                   | Physical Fitness                             |
| iJourney                            | iJourney                                     |
| or iChallenge                      | iConnect or iChallenge                       |

### Magnet and Elective

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Language Arts

6TH GRADE M/J LANGUAGE ARTS 1 1001010
Sixth grade language arts curriculum consists of reading, literature, composition, grammar, spelling and vocabulary. Reading skills will be reinforced and developed through literary and informative pieces, and students will enhance writing skills through argumentative and informative/expository writing, including essays, short response paragraphs. Students will also participate in a formal unit on speech presentation.

6TH GRADE M/J LANGUAGE ARTS 1 ADV/PR-IB 1001020/ GIFTED/PRE-IB 1001020LG
The SCPS Pre International Baccalaureate Preparatory (Pre-IB Prep) classes have a more in-depth study and students are expected to perform at higher levels. The sixth grade language arts curriculum is advanced and accelerated. However, enrollment is open to any student willing or wanting to be challenged by rigorous curriculum. It consists of literature, composition, grammar, spelling and vocabulary. Reading skills will be reinforced and developed through literary and informative pieces, including poetry, short stories and/or novels. Students will enhance writing skills through argumentative and informative/expository writing. Students participate in a formal unit on speech presentation. This curriculum is enriched horizontally while accelerated vertically.

7TH GRADE M/J LANGUAGE ARTS 2 1001040
Seventh grade language arts continues to build on the skills developed during sixth grade, and consists of literature, composition, grammar, spelling and vocabulary. Reading skills are reinforced through literary and informative texts, with an emphasis on poetry. Students continue to build on writing skills through argumentative, informative/expository and narrative writing, including essays, poetry and short response paragraphs. Presentation skills and media literacy will be critiqued and studied through student involvement in speech making.

7TH GRADE M/J LANGUAGE ARTS 2 ADV/PRE-IB 1001050/GIFTED/PRE-IB 1001050LG
The SCPS Pre International Baccalaureate Preparatory (Pre-IB Prep) classes have a more in-depth study and students are expected to perform at higher levels. The “Areas of Interaction” (environment, health, community service, approaches to learning) are incorporated into all curriculum areas. Advanced seventh grade language arts curriculum is designed to be fast paced, for those students who are reading and writing at or above grade level, and who enjoy the many aspects of language arts. However, enrollment is open to any student willing or wanting to be challenged by rigorous curriculum. Reading skills are continually reinforced by in-depth readings of literary and informational texts, including poetry, short stories and/or novels. Students continue to build and refine writing skills in argumentative and informative/expository areas, writing more well-developed paragraphs and essays. There is a concentration on grammar, usage and mechanics while writing and editing their own work. Reading for pleasure and information is essential to all areas of language arts skill development; therefore, extra reading outside of class is a requirement for advanced/Pre IB students. This curriculum is enriched horizontally while accelerated vertically. Advanced/Pre-IB language arts students will also participate in a cross-curricular project, incorporating language arts, civics and science.

8TH GRADE M/J LANGUAGE ARTS 3 1001070
Eighth grade language arts curriculum continues to build on the skills learned and developed in sixth and seventh grade, and consists of literature, composition, media literacy, grammar, and vocabulary. Students will read a wide variety of informational and literary texts, including poetry, short stories and/or novels. Students will continue to enhance writing skills through argumentative and informational/expository writing, producing a variety of products taken through all stages of the writing process.

8TH GRADE M/J LANGUAGE ARTS 3 ADV/PRE-IB 1001080/ADV/GIFTED/PRE-IB 1001080LG
The SCPS Pre International Baccalaureate Preparatory (Pre-IB Prep) classes have a more in-depth study and students are expected to perform at higher levels. The “Areas of Interaction” (environment, health, community service, approaches to learning) are incorporated into all curriculum areas. Eighth grade advanced language arts curriculum involves moving at a vigorous pace. However, enrollment is open to any student willing or wanting to be challenged by rigorous curriculum. Vocabulary is enhanced through analogies and written usage. Literary analysis is used with numerous pieces, both in class and independently outside of class. Reading skills are reinforced by in-depth, close readings of literary and informational texts, including poetry, short stories and/or novels. Writing skills are refined through a focus on grammar, vocabulary, and studying professional authors’ writing, in addition to practicing skills learned in the areas of argumentative and informative/expository writing. Reading for pleasure and information is essential to all areas of language arts skill development; therefore, extra reading outside of class is often a requirement for advanced/Pre IB students.
Social Studies

6TH GRADE M/J WORLD HISTORY 2109010
The sixth grade social studies curriculum consists of the following content area strands: World History, Geography, Civics, and Economics. The primary content for this course pertains to the ancient and classical civilizations of Africa, Asia, and Europe. Students will be exposed to the multiple dynamics of world history including economics, geography, politics, and religion/philosophy. Students will study methods of historical inquiry and primary and secondary historical documents.

6TH GRADE M/J WORLD HISTORY ADV /PRE-IB 2109020/GIFETED/PRE-IB 2109020LG1
The Pre International Baccalaureate Preparatory (Pre-IB Prep) classes have more in depth study and students are expected to perform at higher levels. The sixth grade social studies curriculum consists of the following content area strands: World History, Geography, Civics, and Economics. The primary content for this course pertains to the ancient and classical civilizations of Africa, Asia, and Europe. Students will be exposed to the multiple dynamics of world history including economics, geography, politics, and religion/philosophy. Students will study methods of historical inquiry and primary and secondary historical documents.

7TH GRADE M/J CIVICS 2106010
The primary content for the course pertains to the principles, functions, and organization of government; the origins of the American political system; the roles, rights, responsibilities of United States citizens; and methods of active participation in our political system. 30 percent of the student’s course grade shall be based on the state-wide, standardized end-of-course assessment.

7TH GRADE M/J CIVICS ADV/PRE-IB 2106020/GIFETED/PRE-IB 2106020LG1
The Pre International Baccalaureate Preparatory (Pre-IB Prep) classes have more in depth study and students are expected to perform at higher levels. The primary content for this course pertains to the principles, functions, and organization of government; the origins of the American political system; the roles, rights, responsibilities of United States citizens; and methods of active participation in our political system. 30 percent of the student’s course grade shall be based on the state-wide, standardized end-of-course assessment.

8TH GRADE M/J UNITED STATES HISTORY 2100010
The purpose of this course is to enable students to understand the development of the United States within the context of history by examining connections to the past to prepare for the future as participating members of a democratic society. The student will examine political, economic, technological and social developments of the United States from the Exploration Period through Reconstruction, with special emphasis on Florida’s role. The course of study should include, but is not limited to: the impact of expansion on the development of America; political, social, and economic conflicts and compromise; influence of diverse groups on cultural development of the U.S.; key concepts of the U.S. Constitution and other historical documents.

8TH GRADE M/J UNITED STATES HISTORY ADV/ PRE-IB 2100020/ GIFTED/PRE-IB 2100020LG1
Courses offer learning opportunities scaffold for students to develop the critical skills of analysis, synthesis, and evaluation in a more rigorous and reflective academic setting. Students are empowered to perform at higher levels as they engage in the following: analyzing historical documents and supplementary readings, working in the context of thematically categorized information, becoming proficient in note-taking, participating in Socratic seminars/discussions, emphasizing free-response and document-based writing, contrasting opposing viewpoints, solving problems, etc. Students will develop and demonstrate their skills through participation in an extended research-based project (e.g., History Fair Project, participatory citizenship project, mock congressional hearing, projects for competitive evaluation, investment portfolio contests, or other teacher-directed projects).

M/J United States History, Pre IB Prep/Advanced 2100020
This course is designed for the highly motivated student who wishes to pursue the International Baccalaureate Program or Advanced Placement courses in high school. Students will explore the events of U.S. History using documents, images, cartoons and other primary sources along with secondary text. With a more rigorous focus on document based inquiry, the students will examine and analyze the political, economic, technological and social developments of the United States from the period of colonial settlement through Reconstruction. Florida’s role in our nation’s history will also be emphasized. Instruction will focus on students developing an understanding of themes in U.S. History including the
Students will take a revised science course that has been designed to support understanding through big ideas in science. This course will allow students to learn content across six interconnected units that will build throughout middle school. The major concepts covered during 6th grade Comprehensive will be: Atoms and Molecules, Classification of Organisms, Ecosystems, Plate Tectonics, The Geosphere and Cryosphere, and Our Solar System. The class will be supported by digital content as well as hands-on, cooperative, and literacy based activities.

Students will take a revised science course that has been designed to support understanding through big ideas in science. This course will allow students to learn content across six interconnected units that will build from the content covered in 6th grade and will be developed further in 8th grade. The major concepts covered during 7th grade Comprehensive will be: Cell Structure and Function, Homeostasis in Cells, Heredity, Weathering and Erosion, The Hydrosphere and Atmosphere, and Stars and Galaxies. The class will be supported by digital content as well as hands-on, cooperative, and literacy based activities.

Students in Advanced and Gifted classes will be provided opportunities to dive deeper into the content and to make even more connections across science and with other disciplines.
The eighth grade curriculum builds on the skills and concepts studied in the sixth and seventh grade. Safety skills and the use of the scientific methods, and metric system are utilized to further students’ knowledge of science. The content for the eighth grade deals with life science. The focus of the course starts with the animal and plant cells and move on to the classification systems for the major kingdoms (i.e., bacteria, fungi, protist, plants and animals) of life. Also included in the course is the study of the human body, human sexuality, genetics, and evolution. The course culminates with the study of the ecology of our surroundings. Laboratory techniques and safe laboratory techniques are an essential part of the course. Projects are used to further the students’ understanding of the key concepts. All students will have to opportunity to participate in the Science Fair.

This course is designed as an interdisciplinary course to provide students with scientific principles, concepts, and methodologies required to identify and analyze environmental problems and to evaluate risks and alternative solutions for resolving and/or preventing them. All students will be in the science lab or field, collecting data every week. Learners should understand measurement error; and have skills to aggregate, interpret, and present the resulting data.

Laboratory activities and safe laboratory techniques are an essential component of this class and offer students an opportunity to become familiar with scientific instruments and methods.

Taking the high school Environmental Science course in grade 8 allows Pre-IB students to earn an additional high school science credit; students may not omit science from their schedules in grade 9 and 10. Students may drop this course ONLY during the 1st Nine weeks.

Eighth grade students at the advanced level, in addition to demonstrating the standard level, make connections among unifying concepts and processes to explain the natural world and the dynamic nature of science. The cognitive complexity for students at this level reaches into a higher level of thinking, requiring frequent responses, citing evidence, drawing conclusions, explaining phenomena, and using concepts to solve problems. Students extend many of the higher level thinking skills over an extended period of time, making connections between related concepts and phenomena and synthesizing ideas into new concepts. They will propose new problems, questions and/or experimental designs based on results or research. Students analyze information to provide new insights and draw related logical conclusions that are not immediately obvious. They will identify issues, evaluate science information and principles, and make and support decisions, with justification. Students independently research how scientific knowledge changes and grows due to the contributions of individuals.

They will also be required to complete a science fair project.
MATHEMATICS

6TH GRADE M/J MATHEMATICS 1 1205010
Students will:

- Connect ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems.
- Understand division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers.
- Write, interpret, and use expressions and equations.
- Develop an understanding of statistical thinking.
- Develop an understanding of proportional relationships.
- Develop an understanding of operations with rational numbers and working with expressions and linear equations.
- Reason about relationships among shapes to determine area, surface area, and volume.

6TH GRADE M/J MATHEMATICS 1 ADV/PRE-IB 1205020/GIFTED/PRE-IB 1205020LG
All topics in M/J Mathematics 1 are included in 6th Grade Adv./Pre-IB Prep M/J Mathematics 1. In addition, students will:

- Connect ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems.
- Understand division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers.
- Write, interpret, and use expressions and equations.
- Develop an understanding of statistical thinking.
- Develop an understanding of and apply proportional relationships.
- Develop an understanding of operations with rational numbers and working with expressions and linear equations.
- Reason about relationships among shapes to determine area, surface area, and volume.

6TH GRADE GEMS MATHEMATICS 2 ADV/PRE-IB 1205050G/GIFTED/PRE-IB 1205050LG
Prerequisite: 5th grade PRIMES
This rigorous course combines content from 6th, 7th and 8th grades in order to prepare students to be successful in Algebra I Honors in 7th grade. Due to the quantity and rigor of material that students must learn for success in Algebra I Honors, students will be expected to complete additional assignments and coursework outside of the classroom on the computer. This work will be a "virtual bridge" that provides computer-based instruction and assessment that the teacher will integrate into work completed in the classroom.

7TH GRADE MATHEMATICS 1 1205040
Students will:

- Develop an understanding of and apply proportional relationships.
- Develop an understanding of operations with rational numbers and work with expressions and linear equations.
- Solve problems involving scale drawings and informal geometric constructions, and work with two- and three-dimensional shapes to solve problems involving area, surface area, and volume.
- Draw inferences about populations based on samples.

7TH GRADE MATHEMATICS 2 ADV/PRE-IB 1205050/ GIFTED ADV/PRE-IB 1205050LG
Prerequisite: 6th grade advanced recommended
Students will:

- Solve problems involving scale drawings and informal geometric constructions, and work with two- and three-dimensional shapes to solve problems involving area, surface area, and volume.
- Draw inferences about populations based on samples.
- Formulate and reason about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations.
- Grasp the concept of a function and use functions to describe quantitative relationships.
- Analyze two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understand and apply the Pythagorean Theorem.
ALGEBRA I HONORS 1200320M
ALGEBRA I HONORS GIFTED 1200320ML
Prerequisite: 7th grade advanced is recommended
Grade: 7-8 Year
Algebra I Honors includes a rigorous, in-depth study of all of the topics included in Algebra I as well as Binomial theorem, solving radical and rational equations, systems of nonlinear functions, inverse functions, deeper exploration of arithmetic and geometric sequences and series. It is strongly recommended that students taking this course have successfully completed their previous math course. Additionally, students will work on test taking skills and problem solving techniques to prepare for the End of Course Exam (EOC). Algebra I or its equivalent course is required for high school graduation.

GEOMETRY HONORS 1206320M
GEOMETRY HONORS GIFTED 1206320ML
Prerequisite: Algebra I
Grade: 8 Year
This course includes a rigorous, in-depth study of all of the Geometry topics as well as, but not limited to: in-depth constructions, Cavalieri’s principle, proving and applying laws of sine and cosines in non-right triangles, and conic sections. A graphing calculator is required. It is strongly recommended that students taking this course have successfully completed their previous math course. Additionally, students will work on test taking skills and problem solving techniques to prepare for the End of Course Exam (EOC).

8TH GRADE PRE-ALGEBRA 1205070
Students will:
- Formulate and reason about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations
- Grasp the concept of a function and use functions to describe quantitative relationships
- Analyze two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understand and applying the Pythagorean Theorem.

ALGEBRA I 1200310M
Prerequisite: 7th grade advanced is recommended
Grade: 8 Year
The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. The critical areas, called units, deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. The Standards for Mathematical Practice apply throughout each course, and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Additionally, students will work on test taking skills and problem solving techniques to prepare for the End of Course Exam (EOC). Algebra I or its equivalent course is required for high school graduation.

ALGEBRA I Workshop 1204000E
Prerequisite: Successful completion of Math 2 and L2 or L3 in Math FSA
Grade: 8 Year
This course is designed to provide extra facilitation through the Algebra curriculum as they develop their secondary mathematics education. Also, this course will supplement topics that are reviewed in pre-algebra for students who may have skipped over that specific course. The course will cover many vital mathematical concepts including expressions and equations, systems of linear equations, the concept of a function, analyzing two and three-dimensional space and figures, and applying the Pythagorean Theorem. Students will be given pass or fail credit on their ability to follow the mostly classroom only instruction.
**Non-Core Required/Electives**

**Non-Core Required 6th Grade Courses**

**iJourneys 9100110**  
Grade: 6 Semester  
This semester-long course is designed to provide instruction in keyboarding, computer hardware, Internet, introductory word processing, introductory electronic presentation, introductory spreadsheet, and soft skills for business applications.

**PHYSICAL FITNESS I 15086000F6**  
Grade: 6 Semester  
Students participate in a variety of experiences that enhance sports/skills, cardiovascular endurance, and overall fitness. Each student learns lifetime activities that help maintain wellness. Students will be introduced to individual and team activities.

**Non-Core Required 7th grade Courses**

**iConnect 8200210**  
Grade: 7 Semester  
This semester-long course is designed to provide instruction in intermediate keyboarding, intermediate computer hardware, intermediate Internet, intermediate word processing, intermediate electronic presentation, intermediate spreadsheet, introductory digital design, and soft skills for business applications. Students are also assisted in making informed decisions regarding their future academic and occupational goals.

**PHYSICAL FITNESS I 15086000F6**  
Grade: 7 Semester  
The physical education department offers students a variety of experiences that will enhance sports/skills, cardiovascular endurance, and overall fitness. Each student learns lifetime activities that help maintain wellness. Students will be introduced to individual and team activities.

**Foreign Language**

**6TH GRADE SPANISH 0708000**  
Grade: 6 Semester  
Students will work in groups, pairs and individually to build basic conversational skills of the target language. Further development of vocabulary and initial understanding of grammatical structures is achieved through drills, hands on projects and use of various forms of technology. Periodically students have use of the computer lab and available software to improve their oral and aural skills. Students will learn how to conjugate regular and some irregular verbs in present tense.

**7TH GRADE SPANISH 0708010**  
Grade: 7 Semester  
Students will demonstrate understanding and development of basic and more advanced vocabulary in the target language. They will have the opportunity to improve their conversational skills to include information about the present and past activities and experiences. They will participate in more advanced levels of conversational skills in the target language. Students will also recognize popular literature, art, famous Hispanic achievers, and cultural events in which will allow them to experience connections and comparisons of their personal lives to the natives of the target language.

**PRE-IB SPANISH I 0708800**  
Grade: 8 Year (High School Credit)  
In this course, the student will work toward proficiency in Spanish through the development of the four main skill areas: listening, reading, writing and speaking. Equal emphasis will be given to the teaching of these four skills. The students will take part in individual, as well as partner and group work to develop oral proficiency. Course work will include the mastery of basic grammatical structures and acquisition of every day vocabulary in Spanish. In addition, students will study some of the frequently used idioms in the Spanish language. Students also will begin to build an awareness of the cultural variety of the Spanish speaking world.

**SPANISH I---Non IB 0708340**  
Grade: 8 Year (High School Credit)  
This course is designed to emphasize speaking and listening skills with students’ oral participation in the target language. Reading and writing are introduced and basic grammar structures taught. Students will learn the culture and customs of various Spanish-speaking countries. Interested students should have a strong background in Language Arts.
Electives

**Elective Physical Education** includes specific categories of physical education areas. Students can choose an area which will include several activities during that course period. Each student will learn lifetime activities that help maintain wellness. Students are to have fun and enjoy physical activity in a safe and healthy environment. These are semester courses.

**Basketball 15086000B6**
Grade: 6-8 Semester
Basketball skills and strategies will be developed through practice and play.

**Volleyball 15086000V6**
Grade: 6-8 Semester
Volleyball skills and strategies will be developed through practice and play.

**Flag Football 15086000S6**
Grade: 6-8 Semester
Running and conditioning skills/strategies will be developed through practice and play.

**Field Sports 15086000L6**
Grade: 6-8 Semester
Soccer, softball, flag football, kickball, track and field, and Gatorball.

**Cheerleading I 15086000C6**
Grade: 6-8 Semester
Knowledge of safety issues while learning stunts, gymnastics, and dance will be stressed. Aerobics and weight training will also be included to develop high levels of cardiovascular fitness and strength.

**Dance 15086000D6**
Grade: 6-8 Semester
Students will learn the dance moves and routines that are used in dance teams. Dance techniques will be incorporated to develop cardiovascular fitness and muscular strength.

**Weight Training 15087000W7**
Grade: 8 Semester
Designed to enhance the physical abilities and coordination of 8th grade students, this course aids those who are planning to compete at the interscholastic level in sports. It includes safety and weight training procedures for high school athletes.

**Intro. to AFJROTC (ROTC) 2104010**
Grade: 6-8 Semester
Air Force Junior ROTC is an introduction to the Air Force, military customs and traditions, and drill and ceremonies. Students learn leadership, teamwork, and citizenship through activities on campus and in the community. We assist World War II veterans participating in Honor Flight, march in parades, and provide color guards for school and community events. Students participate in physical training, a unit of study that reflects military history, and a unit of study that relates to the mission of the Air Force: flight, space, or cyber security. The specific unit rotates each semester because students are invited to retake the class and move up in rank and leadership positions.
Electives
Humanities

ART 1 0101005
Grade: 6-8 Semester
This is a beginning level art class. Students work with both 2-D and 3-D media in Art 1, we cover a large variety of material. Students will start the semester learning drawing techniques and color theory. We use these foundations as building-blocks for the semester. Students will create collage and mosaic work, many styles of self-portraits, Pariscraft masks, paper-mâché animal masks, and ceramic projects.

ART II 0101010
Prerequisite: Art I
Grade: 6-8 Semester
This course covers similar topics to Art1 but at a more intense level and in a more rigorous nature. Students learn advance drawing techniques, including those used at the high school and college level. By the end of this semester-long course, students will have developed a strong portfolio. We cover portraiture, two-point perspective, clay, linoleum print making, and mask making.

DIGITAL ART & DESIGN I 0103000
Prerequisite: Art I
Grade: 7-8 Semester
Students explore the fundamental concepts, terminology, techniques and applications of digital imaging to create original work. Students produce digital stills and/or animated images through the single or combined use of computers, digital cameras, digital video cameras, scanners, photo editing software, drawing and painting software, graphic tablets, printers, new media, and emerging technologies. This course incorporates hands-on activities, the use of technology, and consumption of art materials.

BEGINNING BAND 1302000
Grade: 6-8 Year
Anyone can be successful and can play an instrument that is appropriate for that individual. No musical experience is required. Students will be provided instruction in the development of fundamentals of posture, tone production, breathing, instrument care, music reading, rhythm, musical terms and symbols, and proper performance techniques are taught. **Band students must either provide their own instruments or rent them from a local music store. Instrument rental fees range from $20 to $30 per month. Band students will also be expected to attend all band functions, which may include occasional afternoon practices, evening performances, field trips, and parades.**

INTERMEDIATE BAND 1302010
Prerequisite: Band 1 or Teacher recommendation required
Grade: 7-8 Year
This course is open to students who have completed one full year of beginning band. Music fundamentals, tone production, and music theory are reinforced in the classroom environment, and students have various opportunities to perform at school, civic, and state sponsored festivals. The knowledge of 7 scales is required.

ADVANCED BAND 1302020
Prerequisite: Teacher recommendation required
Grade: 7-8 Year
This course is open to all students who have completed one year of beginning band and/or concert band. Advanced Band enrollment is contingent on a student’s dedication to his/her personal musical development. Challenging wind ensemble literature is presented to the students. Private lessons are strongly encouraged, and students are required to perform at the district solo and ensemble festival, as well as school and civic functions.

JAZZ BAND 13020200JZ
Prerequisite: Teacher recommendation required
Grade: 7-8 Year
Jazz Band consists of students in concert or advanced band who show an interest in the study of jazz music. Selection is based on director recommendation, and students will participate in local and state festivals. Jazz theory, history, improvisation, and performance styles are concepts involved in this course. Students are required to perform at school and civic events.

GUITAR I 1301060
Grade: 6-8 Semester
This course is designed for students interested in learning to play the guitar who have no previous training. The goals are to teach students proper playing technique, basic musical skills, and various styles of music. At the end of the course students will be prepared to continue playing the guitar as either a hobby or pursue further training on the guitar either by private lessons or the guitar II course.
GUITAR II 1301060
Prerequisite: Successful completion of Guitar I
Grade: 6-8 Semester
This course is designed for those students that have passed Guitar I and would like to pursue the guitar even further. Students will develop more advanced techniques, playing as a group and improvise on the guitar. At the end of the course, students will be prepared to continue playing the guitar as either a hobby or pursue further training on the guitar through private lessons or instructional books.

MUSICAL KEYBOARDING 1301030
Grade: 6-8 Semester
This course introduces the student to reading and playing music on the keyboard instrument. The class focuses on beginning piano instruction. Students will learn fundamentals of the piano/keyboard technique and basic music notation. This course is designed for students with no previous piano instruction.

MUSICAL KEYBOARDING II 1301030K2
Prerequisite: Successful completion of Keyboarding I
Grade: 7-8 Semester
This course is designed to further develop the skills learned in Musical Keyboarding I and introduces the student to more musical terms and notation while developing independence in the hands and proper technique while playing the piano/keyboard.

CHORUS I 1303000
Grade: 6-8 Year
This ensemble is a mixed choir (male and female – two parts) and is open to any student wishing to learn how to sing for the first time. Students will learn to sing a variety of different musical styles. In addition to learning music, there will be an emphasis placed on proper vocal production and health at all times. Basic musical terms, symbols, note reading, rhythm values, meters, and proper concert/performance techniques are employed to achieve the goals set for successful completion of the class and to help students prepare for the audition process to move up to the Nova ensemble. Students are required to stay after school at various locations and require parental consent and transportation by parents.

CHORUS II 1303010
Prerequisite: Chorus I and/or Audition/Teacher approval
Grade: 7-8 Year
This ensemble is a mixed choir (male and female – two parts) and is open to any student wishing to continue from Chorus I. Students will learn to sing a variety of different musical styles and proper vocal production.

CHORUS III 1303020
Prerequisite: Chorus II and/or Audition/Teacher approval
Grade: 7-8 Year
This ensemble is a mixed choir (male and female – SSAB) and auditioned by the director each spring. The class specializes in 20th Century Jazz/Rock/Pop music as well as traditional music. Students will also learn choreography to some of the selected repertoire. The audition consists of a demonstration of dance skills and a vocal solo presentation. Nova members are required to attend after school rehearsals each week. Nova members are also required to participate in all extracurricular events, which include performances for local civic organizations, convention shows, FVA District Festival, FVA State Festival, National Festivals and other community performances. Festival fees are inherently the responsibility of each student but supported by several choral department fundraisers as outlined in the SMS Choral Hand Book. Students will actively participate in musical activities and concert performances. Students are required to stay after school at various locations and require parental consent and transportation by parents.

PEER TUTOR--APPLICATION CLASS 8440350
Grade: 8 Semester
This course was created for those students who are interested in learning about the teaching profession. Students also receive training in working with younger students and assisting teachers. Once trained, students are assigned to one or two teachers for one class period a day. There they receive hands-on experience with the teaching profession. Students must fill out an application and meet qualifications for this class.

DRAMA I 0400000
Grade: 6-8 Semester
Drama I teaches students the basic elements of theater production and the dynamics of acting through voice and character development, scene analysis, and performance opportunities. Students learn basic acting skills such as presenting monologues, how to audition, improvisation, characterization, preparing a role, stage movement, and choreography. In addition, students are guided through various aspects of the production process from rehearsals to backstage crews to costuming and make-up techniques.
DRAMA II 0400010
Prerequisite: Drama I
Grade: 7-8 Semester
Drama II’s objective is to prepare student actors for auditions in the real world of theater. Students practice and learn audition techniques, prepare and perform monologues, scenes, and one act plays. They have opportunities to see and hear professionals perform through videos, live productions, and guest speakers. Student actors create a performance troupe that present live and video-taped productions. They appear at various school functions and on the morning announcements as well as at other schools and in the community.

YEARBOOK I - APPLICATION CLASS 10060000YB
Prerequisite: Application/Teacher Approval
Grade: 7-8 Year
The yearbook elective is a full-year commitment to being the staff of Sanford Middle School’s yearbook. During the year, students will enhance teamwork, time management, organizational, and writing and editing skills while learning photography and the computer technology necessary to design each page of the yearbook. Students entering this course must commit to meeting deadlines, as well as attending extracurricular events and special training clinics. Yearbook staff members also learn business and sales skills and are required to solicit advertisements. References and parent consent forms must accompany the application for this class.

CONVERSATIONAL SPANISH 0708100
Grade: 6-8 Semester
This course is designed to emphasize basic communication skills in the target language. Conversational vocabulary and grammar are taught. Students are given basic introduction to the culture and customs of various Spanish-speaking countries.

SPEECH & DEBATE 100700
Grade: 6-8 Semester
This course will be a basic course in speech and debate. Students will learn about effective verbal and nonverbal communications skills. They will learn to construct, use and defend an argument in debate. They will assess their own public speaking skills, as well as the public speaking skills of their peers.

Creative Writing I 1009000
Grade: 6-8 Semester
This course is designed to develop student’s creative writing ability and explore the art of writing. The content focuses on students using writing, speaking, and listening skills. Students will write in a variety of formats including short stories and flash fiction, as well as study several simple forms of poetry, and collaborate with peers to create a large “choose your own adventure” story.

Creative Writing II 1009010
Grade: 7-8 Semester
This course is designed to deepen and enhance student’s creativity and writing skills. The content focuses on taking the skills learned and practiced in Creative Writing I and deepening them. This course will challenge writers to step out of their comfort zone and try new styles of narrative, expressive, and poetic writing. Students will also be encouraged to submit works for local, state, and national contests.
Electives
S.T.E.M. (Science, Technology, Engineering, and Math)

VIDEO PRODUCTION I 8260300
Grade: 6-8 Semester
Video production one is an overview of how media, specifically television, has helped shaped society from its invention in 1926 to present day. Students will examine how television started and its impact on society over the past one hundred years. We will examine the various forms of video formatting as well as the basic equipment of modern day newsrooms. Students will explore how different forms of light are used to enhance an individual or object that is being videoed. This course will teach students the appropriate way to interview a prospective client when developing a potential story. Students will then practice those interviewing techniques in class before being videotaped. Each class will use the videotaped interviews to critique each other’s work so they can improve on that particular skill. We will introduce students to storyboarding techniques, which they will use to develop an extended project in class. Students who successfully complete video production one are prepared to take video production two.

VIDEO PRODUCTION II 82604000
Prerequisite: Video Production I
Grade: 7-8 Semester
Video production two builds on skills learned in video one. Students will begin learning about and using audiovisual equipment to create small segments of news that they will study and identify areas that need improvement. We will compare and contrast different forms of light and the effects of light when shooting the news. Students will learn how to take a news story and develop the story into a piece that would be ready to tape. Video two students will also complete research for several of the segments we use in video three for the news. They will use storyboarding techniques to make sure all angles of a story are covered in detail. Upon completing of video two, students may apply for video three.

VIDEO PRODUCTION III - Application Class 82605000
Prerequisite: Video Production I & II
Grade: 8 Year
Video production three is responsible for taking different news pieces and producing the morning news. Students in this class will develop school based news stories, create visual aids to enhance the information, deliver the news, and adjust audiovisual equipment to make sure all parts of the news are professional looking. Students will also work with clients that come into the studio as guest speakers to ensure the sound is correct, lighting is adequate, and their script is on point. Students must fill out an application and meet qualifications.

METEOROLOGY 2002200ME
Grade: 6-8 Semester
This is an introductory course in meteorology. Areas to be covered may include nature and causes of wind, clouds and precipitation; stormy systems and fronts; thunderstorms, tornados, and hurricanes, weather maps and forecasting.

ROBOTICS I 2003030RL1
Grade: 7-8 Semester
This course provides entry level knowledge and applications to the beginning robotics student. Hands on projects, group activities, and the use of technology are an integral part of this course. The areas of emphasis include understanding and using a microcontroller, servo motors, and various types of sensors; designing and building a robot; and controlling a robot’s actions through software programming.

ROBOTICS II 2003030RL2
Prerequisite: Robotics I
Grade: 7-8 Semester
This course continues the development of the knowledge and applications base begun in Robotics I. Hands on projects, group activities, and the use of technology are an integral part of this course. The areas of emphasis include an introduction to digital logic, Boolean Algebra, and basic electrical components; understanding.
AERONAUTIC SCIENCE I 1700000AN1
Grade: 6-8 Semester
The purpose of this course is to learn the fundamentals of aeronautics history from ancient flying myths of the past to the dawn of powered flight with the Wright Brothers all the way to the invention of the jet plane. These lessons are coupled with flight simulator missions where students start with basic flight skills and progress to flying intermediate skill missions. Students also get to view class aviation clips from historic movies and documentaries. The second half of this course focuses on learning aviation fundamentals from aviation geography to weather to basic aircraft structures and systems. Student will have access to our state of the art Flight Simulator.

AERONAUTIC SCIENCE II 1700000AN2
Prerequisite: Pre-Aero Science I
Grade: 7-8 Semester
Students build on their aeronautics history and fundamentals of flight knowledge learned in Aero 1. Aero 2 starts with the invention of the jet plane and progresses all the way up to the present day during the first six weeks. These lessons are coupled with flight simulator missions. Students also get to view class aviation clips from historic movies and documentaries. The second six weeks focuses on learning basic aerodynamics and the forces of flight. Students learn to plan basic flight missions and then try to successfully complete their planned missions in the flight lab. The final six weeks focuses on different types of aircraft ranging from small private planes to military jets and large commercial jet airliners. Student will have access to our state of the art Flight Simulator.

AERONAUTIC SCIENCE III 1700000AN3
Prerequisite: Pre-Aero Science I and II
Grade: 8 Semester
Students build on their aeronautics history and fundamentals of flight knowledge learned in Aero 1 & 2. Aero 3 starts with a six week block of instruction on the space program and the heroes of the Apollo moon missions. These lessons are coupled with flight simulator missions. These lessons are coupled with flight navigation skills, aviation weather and aeromedical considerations. Students will have access to our state of the art Flight Simulator.

ARCHITECTURAL SCIENCE I 2003030AS1
Grade: 6-8 Semester
This course begins the development of the knowledge base, communication skills, interpersonal skills, and technological skills necessary in the architectural profession. The student will gain an awareness and understanding of basic design, organization, theory, materials, and methods of architecture. Hands on projects, group activities, and the use of technology are an integral part of this course. The areas of emphasis include drawing, the design process, drawing interpretation, architecture of the future, non-man made architecture, and career choices.

PRE-MED I 8709350
Grade: 6-8 Semester
This course introduces students to the field of medicine. The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Health Science career cluster. The content includes but is not limited to a broad overview of the Health Science career cluster, including terminology, careers, history, required skills, and technologies associated with each pathway in the Health Science career cluster.

PRE-MED II 8400110
Prerequisite: Pre-Med I
Grade: 7-8 Semester
The student will study and discuss the human body and its various organ systems. There will be a concentration on proper nutrition and exercise. The content includes but is not limited to basic information about the kinds of jobs and workers involved the various career paths, financial rewards, occupational hazards, and educational requirements. Information concerning the practices for promoting good health is included.
PRE-MED III 8400310
Prerequisite: Pre-Med I and II
Grade: 8 Semester
This advanced level will include a teacher directed independent study of medicine. The course includes an introduction to medical ethics, consumerism, and characteristics of health care workers. The purpose of this course is to give students initial exposure to the skills associated with a broad range of occupations relating to careers in health, including job requirements and tasks performed. Students will be learning practical skills such as taking vital signs and learn first aid and CPR.

ECOLOGY 2002200E
Grade: 6-8 Year
This course will focus on the study of the interactions between organisms and their non-living environment. This course provides a background in the fundamental principles of ecological science, including concepts of population and community ecology, biodiversity, natural selection, and sustainability. Students will use the scientific method when conducting outdoor labs.

PRE-VETERINARY I 2000025PV1
Grade: 6-8 Semester
This course focuses on animal biology and is designed to provide students with a deeper understanding of the animal kingdom. Students will study the classification, anatomy, and adaptations of major animal groups. Students will also be introduced to the field of animal behavior where they will examine both inherited and learned behaviors of animals.

PRE-VETERINARY II 2000025PV2
Prerequisite: Pre-Veterinary I
Grade: 7-8 Semester
This course is designed to introduce students to the anatomy and physiology of domestic animals including dogs, cats, cows, and horses. Students will also examine parasites and diseases common to domestic animals. Veterinary medical terminology will be taught and emphasized through class and laboratory activities including a bone marrow, rat, sheep heart, and sheep eye dissection. Students will also learn about common veterinary procedures through hands-on activities and technology based projects.

PRE-VETERINARY III
Grade: 8
Prerequisite: Pre-Vet 1 and 2
Co-Requisite: Students must be enrolled in Biology 1 Honors.
Pre-Vet 3 is a Zoo Magnet program that will be offered as an elective for 8th grade students.
Sanford Middle School will be collaborating with allow hands-on experience (except for venomous snakes) with reptiles and amphibians.

SPORTS MEDICINE
Grade: 7-8 Semester
Prerequisite: Pre-Med 1
Sports Medicine is designed for students interested in fields such as athletic training, physical therapy, medicine, fitness, nutrition, and other sports medicine related fields. The course includes rehabilitation of sports injuries, taping & wrapping of injuries, first aid/CPR, nutrition, fitness/conditioning, and sports medicine careers.

MARINE BIOLOGY I 2000025MR1
Grade: 6-8 Semester
This course will examine the physical aspects of the oceans and fresh water systems. Students will study the physical and chemical properties of seawater, geological processes that form the ocean basins, sea floor, and shoreline features. Introduction to the major groups of marine Central Florida Zoo to provide students with an interactive curriculum that explores various branches of zoology, conservation, and veterinary medicine. Students will spend one day a week at the zoo engaging in hands-on experiences relevant to the curriculum. This is a unique opportunity only offered to Sanford Middle School students. organisms and their interactions with fresh and salt water will be stressed.

MARINE BIOLOGY II 2000025MB2
Prerequisite: Marine I
Grade: 7-8 Semester
As a continuation of Marine Biology I, this course will continue to examine the physical aspects of the oceans and fresh water systems. Students will study the physical and chemical properties of seawater, geological processes that form the ocean basins, sea floor, and shoreline features. Introduction to the major groups of marine organisms.
HERPETOLOGY: REPTILE & AMPHIBIAN STUDY 2000025EH
Grade: 6-8 Semester
Herpetology is the branch of zoology concerned with the study of amphibians and non-avian reptiles. This is a course designed to introduce the student to the structure, taxonomy, ecology and ethology of reptiles and amphibians. Reptiles and amphibians can be used to describe many scientific concepts, including life cycles, thermoregulation, and the scientific method. Conservation of Florida species and invasive species that directly impact Florida will be highlighted. Proper care and handling of these animals as pets will be included. Field trips and/or live animal interactions will

PUBLIC RELATIONS & COMMUNICATIONS 8200120
Grade: 6-8 Semester
The SMS Public Relations & Communication class will focus on developing and branding Sanford Middle School through the students’ perspective. Students will talk to industry professionals in marketing and on line influencers. The class will combine legal aspects, digital tools and create a mindset that is necessary to run a business, market a campaign and/or start a business venture. The basic fundamentals will revolve around communication, teamwork, and branding for the student and school.

DIGITAL INFORMATION TECHNOLOGY (DIT) 8207310
Prerequisite: Computer Applications I and Computer Applications II.
Grade: 8 Year
This year-long course is designed to develop proficiency with computers in the exploration and use of the advanced features of Microsoft Office software. Students will work on completing the MOS (Microsoft Office Specialist) certification in Word, Excel and PowerPoint. After completion of this course, students will earn one high school credit.

ALGEBRA I Workshop 1204000E
Prerequisite: Successful completion of Math 2 and L2 or L3 in Math FSA
Grade: 8 Year
This course is designed to provide extra facilitation through the Algebra curriculum as they develop their secondary mathematics education. Also, this course will supplement topics that are reviewed in pre-algebra for students who may have skipped over that specific course.

The course will cover many vital mathematical concepts including expressions and equations, systems of linear equations, the concept of a function, analyzing two and three-dimensional space and figures, and applying the Pythagorean Theorem. Students will be given pass or fail credit on their ability to follow the mostly classroom only instruction.

GRAMMING/COMPUTER GAME DESIGN 9009100A
Grade: 7-8 Year
This year long elective is a two-part course. The first semester introduces students to the fundamentals of computer programming for general applications. Students will study a widely used programming language and become familiar with the basics of procedural, functional, and object oriented programming. In the second semester, students will focus specifically on gaming theory, design, structure, and development of computer games, specifically for PC or mobile platforms. This course requires no prequisites classes, although basic background knowledge of computers and video-gaming are expected.

STUDENT EDUCATION AND EMPOWERMENT DEVELOPMENT (SEED) 1700100
Grade: 6—8
The course is designed for First Generation College Bound students. Through research, writing, reading and collaboration, students will receive organizational and study skill while engaging in college readiness enrichment activities.
Comprehensive Reading Program

Literacy is defined as listening, viewing, speaking, thinking, reading, writing, and expressing through multiple symbol systems. Sanford Middle School encourages the mastery of these skills through Language Arts classes. In addition, literacy skills are reinforced in other subject areas through content area reading. Students learn how to comprehend and understand text specific to Science, Social Studies, Mathematics, and elective courses. Furthermore, students are exposed to technical reading through their required technology courses. Seminole County Middle Schools has adopted two research-based reading programs to assist students who scored below proficiency in reading (Level 1 and Level 2) and at lower levels of proficiency in reading (Level 3) on the Florida Standardized State Test. Both programs are designed to meet the individual instructional needs of all students who are enrolled in Reading classes. The instructional strategies used by the reading teachers are based on best practices and will assist students with improving their overall reading skills and performance on the Florida Standardized State Test. Additionally, students are given diagnostic assessments to determine strengths and weaknesses in reading. Based on the areas identified as needing improvement, students are then enrolled in the reading class that will meet their individual needs. Students are not required to take an Intensive Reading class when they achieve high levels of proficiency (Level 4 or 5) as measured by the Reading portion of the Florida Standardized State Test.

Intensive Reading

Reading Placement

Students who are below proficiency (Level 1 and Level 2) as measured by the Florida Standardized State Test are **required** to be in an Intensive Reading class. These students will be given additional assessments to determine the appropriate Intensive Reading class. Additionally, students who score at lower levels of proficiency (Level 3) will be given additional assessments to determine the appropriate Intensive Reading class.

Reading Placement Procedures:
The following process will be used for assessing students’ reading placement:
1. Review of the Florida Standardized State Test reading scores.
2. Fluency assessment to determine decoding ability.
3. Non-fluent readers will be given the Corrective Reading Placement Test to determine appropriate Corrective Reading class.
4. Moderately fluent or fluent students will be placed into the appropriate Reading Edge class.
5. Periodic progress monitoring assessments will be reviewed to determine growth in reading ability.
6. Review of the progress monitoring data may result in a change in the students’ reading classes.

Reading Assessments:
- *Florida Oral Reading Fluency (FORF)* and *Discovery Education* assessments are used as a way to monitor students’ progress throughout the year.

Exiting Procedure
When a student has demonstrated high levels of reading proficiency (Level 4 or 5) as measured by Florida Standardized State Test, the reading class is no longer needed.
Exceptional Student Education

Programs are available to eligible disabled students from infancy to age 21. These programs are described in the Special Programs and Procedures for Exceptional Student Document which is approved by the Florida Department of Education and the School Board of Seminole County. Refer to the Exceptional Student Education Section of the Pupil Progression Plan for further information.

S. L. D.
Through our Specific Learning Disability (SLD) program, we are able to provide specialized instruction to those students who qualify for this assistance. The main goals of the program are to remediate deficiencies, provide students with alternative ways to learn, help them compensate for their disability so that they are able to fully participate in all regular education classes.

E. B. D.
Through our Emotionally Behavior Disabled (EBD) program we are able to provide specialized instruction to those students who qualify for this assistance. These classes are taught at the students' instructional levels, with the main goal being to assist students to make adjustment and cope with their disability so that, when possible, they may return to regular education classes. The teachers and the school also strive to integrate these students into the school in every possible way.

I.D.
Through our Mildly Intellectually Disabled (ID) program we are able to provide specialized instruction to those students who qualify for this assistance.

A.S.D.
Through our Autism Spectrum Disabled (ASD) program we are able to provide specialized instruction to those students who qualify for this assistance.

Gifted Program
Students must qualify for the Gifted Program through testing with a psychologist. The gifted program in Seminole County is committed to the belief that each identified student is an individual with great potential. This commitment requires that each student has guidance in discovering, developing and realizing his/her potential as an individual and as a member of society. Each student will receive: an educational plan that reflects individual strengths and weaknesses, interests and learning steps; differentiated curriculum and instructional strategies; The acquisition of a realistic self-image; and exposure to experiences which foster a positive attitude toward the creative process and an appreciation of aesthetics. In addition, the following will be incorporated into the program. The development of Thinking skills - critical/creative thinking skills; research and communication-research skills, study skills, test taking skills, public speaking skills; affective - risk taking skills, self-concept improvement, peer relationships and adjustment to middle school life.

Speech/ Language Impaired Program -
Speech Therapy: 6-8
Lang Therapy: 6-8
In the Speech/Language Impaired program, the four areas that are addressed are articulation, language, fluency and voice. Speech and language impairments are defined as disorders of language, articulation, fluency or voice which interfere with communication, pre-academic or academic learning, vocational training, or social judgment.
Extracurricular Activities

Sports Program

Competitive/Interscholastic Sports
Sanford Middle School offers its students an interscholastic/intramural competitive athletic program that includes cross country, track, volleyball, basketball and cheerleading. Students are required to obtain/pass a physical examination and provide proof of insurance before participating. Those students who "make" the teams are to pay a registration fee. The registration fee helps to cover expenses. There are scholarships available for deserving students.

Varsity participants are the most skilled at any grade (6th, 7th, or 8th). Once students become 16 years old, they can no longer participate. Junior Varsity participants may only be 6th or 7th grade students and once J.V. students become 15 years old, they can no longer participate. Each team/squad is encouraged to have at least one student manager and one Team Reporter. All student interscholastic sports participants must have a 2.0 GPA or greater on their most recent Report Card [fall sports would be the report card from the previous school year] to try out for a team. If a student on a team/squad falls below a 2.0 GPA on their Progress Report, they are placed on probation and monitored by their coach to ensure that their grades improve. If a student is on a team/squad and falls below a 2.0 GPA on their next Report Card, they are removed from the team. Good Character and proper sportsmanship is expected of all participants. All participants are under the requirements of the District Citizenship Policy.

Volleyball- Girls and Boys Varsity and Junior Varsity. Volleyball tryouts are usually the 2nd or 3rd week of school. We practice 2 days a week with all games on Wednesdays. Girls practice Mondays and Fridays and boys Tuesdays and Thursdays. We have 5 regular season game and county tournament.

Basketball- Girls and Boys Varsity and Junior Varsity. Basketball begins the last week of March and ends the first week of May. Tryouts are usually held before Spring Break. As with volleyball, girl’s practice two days a week and boys practice two days a week unless the coach opts to practice mornings then it may vary. We have 5 regular season game and county tournament.

Cross Country - Girls and Boys Varsity and Junior Varsity. Registration begins the last week of October. Our season runs from October to December. We practice two days a week, Mondays and Fridays with meets on Wednesdays. We have 4 tri-meets then our county meet.

Track and Field- Girls and Boys Varsity and Junior Varsity. Registrations begin December 1st and run until December 18th. Our season begins January 1st and runs until the first week in March. We practice Monday, Tuesday, Thursday, and Friday each week. We practice girls on two days and boys on two day. All meets are on Wednesdays. We have 4 tri-meets then our county meet.

Cheerleading- Varsity and Junior Varsity. Practices are usually three times a week with a performance at a basketball game (usually) at least once a week. Tryouts are necessary for all levels and these tryouts take place in both the spring and the fall. Usually, the Varsity and some Junior Varsity cheerleaders attend a summer camp at U.C.F. While the Cheerleader's regular season corresponds with the volleyball season, they may cheer during the volleyball season, and there may be other cheering opportunities at parades and school functions. Cheerleaders are expected to perform at all Pep Rallies.

Spirit Cheerleading Squad- This Team develops cheerleading skills for students who may be interested in trying out for the school team in the future, students who do not make the school varsity or J.V. cheerleading teams, or students who are just interested in showing school spirit. All students who want to participate may at no cost. Practices are usually once or twice a week with performances at some volleyball games and pep rallies. The group also performs at various parades and pep-rallies in the fall and winter.

Clubs & Organizations

Beta Club
This is a service club for honor roll students in the seventh and eighth grades. Students are invited to be a member of the Club based on the National qualifications for membership which are: (1) must be in the 7th or 8th grade (2) must have a 3.6 GPA or better for last year and the current school year, and (3) must have satisfactory citizenship. Once a member, students are required to maintain their grades of at least four A’s and two B’s each nine weeks. Beta Club meets after school once a month to participate in service type projects.

AMC - 8 Competition
While this is not a club, it is a competition in which we participate.

Mu Alpha Theta Team
Students who take Algebra I or Geometry are eligible to compete in the Mu Alpha Theta competitions. We attend up to six Saturday competitions from January through March, and have weekly after school practices. Parental consent and transportation is required.
Chess Club
This club meets every week. All grade levels may attend, and all students are welcome whether they are beginners or experts.

Debate Club
This club is for students interested in learning the skills and techniques used in debate. Students will practice their skills with debates within the club while we seek other middle schools.

STEM Club
This club is a fast paced, hands-on, interactive, group of lab activities that hopefully inspire SMS students in the career fields of Science, Technology, Engineering and Math (STEM). Via a U.S. Navy Funded Educational Outreach Initiative and on-going Cooperative Agreement, SMS STEM Club students explore topics like Hovercrafts, Buoyancy, Gyroscopes, Holographs, Robotics and Underwater Submarines. The club is technically assisted by a NAWCTSD (Navy) Systems Engineer volunteer.

Future Educators of America
Future Educators of America is a school-based club for students interested in becoming an educator. Students will do fun activities and learn about the field of education. Students in this club may wish to apply to be in the Future Educators Elective.

Math Club
Math Club is for 6th, 7th and 8th grade students who are in advanced math. They meet once a week. Students regularly take tests and keep a running tally of their scores. The top scoring students get to represent SMS in the MATH COUNTS competition in February. Parental consent and parental transportation is required.

S.E.C.M.E.
The SMS SECME Club is part of a national organization formed to motivate students to pursue careers in science, mathematics, engineering and technology. Our goals are to provide career exploration opportunities, facilitate academic and developmental transitions from elementary school to higher education, to increase student motivation and self-esteem, and most of all to have fun! Students participate in a variety of hands on activities including bridge building, egg drop competition, and engineering a mousetrap car. All students are invited to participate in the UCF Regional SECME Competition in February.

Odyssey of the Mind Team
An extracurricular, creative, problem-solving activity open to all students at SMS that develops team work, leadership, and presentation skills. Each year, SMS teams compete to solve five long-term problems and one spontaneous challenge at regional and state competitions. Here students present an eight minute skit showing their student-designed long-term solution and demonstrate spontaneous problem-solving skills.

Robotics Club
This club is open to all who are interested in building robots. Activities include the use of Legos and building robots. Plans are being considered to host a competition with robots built by members.

Science Club
The SMS Science Club is a very active group that has fun doing a variety of science activities to include working with our outside environmental study area, utilizing sophisticated scientific technology (probes, graphic calculators, palm pilots, etc.) to study and understand our world.

Student Council
Student Council is an active group of students who take part in the planning and implementation of projects, events, and community activities. They help to promote school spirit and provide positive experiences for the student body. All grades are represented in the organization. Officers are elected each spring to serve for the next school year. Adult sponsors provide guidance. Several projects require students to come early or stay late. It is for this reason that parent permission is required to become a student council representative.

Drill Team
Drill Team is a club based on the Air Force Junior ROTC program. Exhibition drill (both armed and unarmed) is an extension of the Drill and Ceremonies learned in class. Any student who has had AFJROTC is welcome to participate. We perform at events, march in parades, and compete against other middle schools each spring. Students may practice spinning rifles and learn increasingly difficult movements in the morning before class.
Registration

To complete the registration form, students need to know several things:

1. We have 7 academic periods.

2. Four of those periods are the core courses of math, science, language arts, and social studies.

3. Students choose standard or advanced level core courses.

4. **Becoming a Pre-IB Prep. Student:**
   - **Out of Zone students** chose to be a Pre-IB Prep. student during the random selection application process. If you did not choose to be Pre-IB during that time you can choose to be a Pre-IB student during the registration process by checking the Pre-IB box on the registration form and selecting the Pre-IB courses.
   - **In Zone students** can choose to be a Pre-IB student during the registration process by checking the Pre-IB box on the registration form and selecting the Pre-IB courses.
   - **All Pre-IB Prep. students** must check the Pre-IB box on the registration form.
   - **All Pre-IB Prep. students** must take all advanced level/Pre-IB core courses.

5. All Pre-IB students **MUST** select a Math class on their registration form.

6. Non Pre-IB students may take as many advanced level core courses as they want or all standard level core courses.

7. All 6th & 7th graders also take 1 semester of PE (Physical Fitness) and 1 semester of Computer Applications I (6th) or Computer Applications II (7th).

8. The core courses, plus PE and computer class, equal 5 of the 7 academic periods.

9. That leaves the equivalent of 4 semester (.5) electives for 6th & 7th graders to choose from the list of electives on the registration sheet.

10. Pre-IB students are required to take Spanish as an elective. The 6th and 7th grade students will take a semester Spanish elective. Eighth grade Pre-IB students will take Pre-IB Spanish I for high school credit. This will leave 6th and 7th grade students with three 1 semester elective courses to choose and 8th grade students with three 1 semester elective courses to choose.

11. When completing the elective portion of the registration form please follow the directions carefully. Please note the important directions about choosing electives and rank ordering them (1 being your top choice). Every effort is made to give students their top choices but there is no guarantee for electives. Space is limited for all electives and scheduling conflicts at times make it impossible to be placed into a class.

In summary, students indicate the level of core courses the student wants, and then the student chooses their electives.
Sanford Middle School has adopted two school logos that represent both our academic and athletic focus.

Sanford Middle School's Academic Logo

Sanford Middle School's Athletic Logo