This curriculum guide has been created to assist students in the course selection process. Please note that all course descriptions, as well as school, district, and state policies and/or requirements, were accurate at the time of publication but are subject to change.

Additionally, please note that the majority of course descriptions have been taken directly (verbatim) from one or more of the following sources for the purpose of providing a "brief" overview of course scope and content. Individual links are provided when applicable.

For more detailed information, please access the following URLs:

- [https://apcentral.collegeboard.org/courses](https://apcentral.collegeboard.org/courses)

**Additional Resources:**

- **SDPBC Strategic Plan:** [https://www.palmbeachschools.org/strategicplan/](https://www.palmbeachschools.org/strategicplan/)
- **SDPBC Parent Web Site:** [https://www.palmbeachschools.org/students_parents](https://www.palmbeachschools.org/students_parents)
  - Academics
  - Academic and Other Programs
  - Student Policies and Procedures
  - Health, Safety, and Other Services
  - Student and Parent Involvement
  - Resources
- **Florida Department of Education Course Descriptions:** [http://www.cpalms.org/Public/search/Course](http://www.cpalms.org/Public/search/Course)
- **Florida Department of Education Graduation Requirements:** [http://www.fldoe.org/academics/graduation-requirements/](http://www.fldoe.org/academics/graduation-requirements/)

**Important notes regarding course selection:**

- Suncoast students annually choose their courses for the following year based on their Choice Program. **Students are required to take all courses listed by name on their program’s four-year plan on our campus at the time (semester or year) the courses are listed.**

- Each year we reconfigure our master board to meet each program’s curricular requirements as well as students’ requests. Therefore, once a student selects their courses (via the online course registration process) and confirms their selections with their academic counselor, **no changes will be made ~ only corrections.**

  Corrections include, but are not limited to:
  - being scheduled to a course without having the pre-requisite coursework or GPA,
  - being scheduled into the wrong level of a course (i.e. honors when it should be AP),
  - being scheduled into a duplicate course (one which you have already received credit for), and
  - being scheduled for an elective when you are missing a graduation requirement.

- It is highly recommended that you speak with your current teachers regarding your selections in their curricular areas for next year.

- Please choose your courses based on content, not on current instructor, as teachers’ assignments often change.
**Accelerated Programs and Advanced Coursework**

Suncoast students in all programs are encouraged to take advantage of advanced course offerings and acceleration programs.

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**Advanced International Certificate of Education (AICE)**

Advanced International Certificate of Education (AICE) is an international, innovative, and accelerated pre-university curriculum and examination system for academically able students offered through the University of Cambridge.

Suncoast offers the following AICE courses: General Paper AS and English Language and Literature AS

For more information, visit [https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-advanced/cambridge-international-as-and-a-levels/](https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-advanced/cambridge-international-as-and-a-levels/)

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**Advanced Placement (AP) Courses**

The College Board’s AP Program is a nationwide program consisting of 38 college-level courses and exams offered at participating high schools. Students who earn a qualifying grade of three or above on an AP exam can earn college credit, or AP credit, or both, depending on the college or university.

For information, visit [http://www.collegeboard.com/student/testing/ap/about.html](http://www.collegeboard.com/student/testing/ap/about.html).


Suncoast offers the following Advanced Placement courses:

- **AP Capstone**
  - AP Seminar
  - AP Research

- **Arts**
  - AP Music Theory
  - AP Studio Art: 2-D Design

- **History & Social Science**
  - AP Comparative Government & Politics
  - AP European History
  - AP Human Geography
  - AP Microeconomics
  - AP Psychology
  - AP United States Government & Politics
  - AP United States History
  - AP World History

- **Math & Computer Science**
  - AP Calculus AB
  - AP Computer Science Principles
  - AP Computer Science A
  - AP Statistics

- **World Languages & Cultures**
  - AP French Language & Culture
  - AP Spanish Language & Culture
  - AP Spanish Literature & Culture

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**International Baccalaureate Diploma Programme (IBDP)**

The IBDP Programme aims to develop students who have excellent breadth and depth of knowledge – students who flourish physically, intellectually, emotionally and ethically. See [http://www.ibo.org/programmes/diploma-programme/](http://www.ibo.org/programmes/diploma-programme/).

The DP curriculum is made up of six subject groups and the DP core, comprising theory of knowledge (TOK), creativity, activity, service (CAS) and the extended essay. Through the DP core, students reflect on the nature of knowledge, complete independent research and undertake a project that often involves community service.

See pages 19 – 24.

Suncoast offers the following IBDP courses:

**Group 1: Studies in Language and Literature**
- IB English Literature III/IV
- IB Spanish Language & Literature

**Group 2: Language Acquisition**
- IB Spanish III/V/VI
- IB French III/V/VI

**Group 3: Individuals and Societies**
- IB Economics I-III
- IB Psychology I-III
- IB History of Americas I
- IB Contemporary History II

**Group 4: Sciences**
- IB Biology I-III
- IB Chemistry I-II
- IB Physics III
- IB Environmental Systems & Societies II
- IB Computer Studies I & III

**Group 5: Mathematics**
- IB Math: Applications & Interpretations I-II
- IB Math: Analysis & Approaches I-III

**Group 6: The Arts**
- IB Theatre I-III
- IB Music I-III
- IB Visual Arts I-III

**Core:**
- IB Theory of Knowledge I-II
- IBCP Personal/Professional Skills I-II
International Baccalaureate Career-related Programme (IBCP)

The IB Career-related Program (IBCP) is a framework of international education that incorporates the vision and educational principles of the IB into a unique program specifically developed for students who wish to engage in career-related education. CP students undertake a minimum of two IB Diploma Programme (DP) courses, a core consisting of four components and a career-related study.

For more information, visit http://www.ibo.org/programmes/career-related-programme/.
For group curriculum details, visit http://www.ibo.org/en/programmes/career-related-programme/curriculum/.

Advanced Placement (AP) Capstone Diploma Program

AP Capstone™ is a diploma program based on two yearlong AP courses: AP Seminar and AP Research. These courses are designed to complement other AP courses that the AP Capstone student may take. Instead of teaching specific subject knowledge, AP Seminar and AP Research use an interdisciplinary approach to develop the critical thinking, research, collaboration, time management, and presentation skills students need for college-level work.

Enrollment in AP Capstone is a two-year commitment. Students enrolling in AP Seminar for junior year will be required to take AP Research senior year.

For more information, visit https://apcentral.collegeboard.org/courses/ap-capstone/how-ap-capstone-works.

Industry Certification

Industry certifications earned through secondary and postsecondary Career and Technical Education (CTE) programs and courses are an important component of Florida’s public education system. The Florida Department of Economic Opportunity (DEO) defines industry certification as follows: A voluntary process, through which individuals are assessed by an independent, third-party certifying entity using predetermined standards for knowledge, skills and competencies, resulting in the award of a time-limited credential that is nationally recognized and applicable to an occupation that is included in the workforce system’s targeted occupation list or determined to be an occupation that is critical, emerging or addresses a local need.

For more information, visit http://www.fldoe.org/core/fileparse.php/8904/urlt/cape-act-techassist.pdf
Please see individual course descriptions for industry certifications available.

Dual Enrollment Courses

Dual enrollment allows eligible high school students to enroll in postsecondary courses. Dual enrollment courses are college-level courses. The amount of work and rigor of content is significantly greater than that of a high school course. Students earn both high school and college credit. Dual enrollment students do not have to pay registration or matriculation fees yet may have to pay laboratory fees. In addition, textbooks for dual enrollment are provided to students free of charge. Grades received through dual enrollment at Florida colleges and universities become part of the permanent postsecondary record.

Note: Students may take a maximum of 8 credit hours per semester (2 courses).

No exceptions will be made...
Students taking a dual enrollment course as part of their Suncoast High School schedule WILL NOT BE PERMITTED TO DROP THE CLASS at any time during the semester for any reason.

PBSC Dual Enrollment Eligibility Requirements

(Visit https://www.palmbeachstate.edu/dualenroll/default.aspx)

Students must:
1. Have a minimum of four high school credits (including one language arts and one math).
2. Have a minimum cumulative un-weighted high school GPA of 3.00 for credit courses.
3. Provide official "college ready" scores on SAT, ACT, Accuplacer, or PERT. (Visit https://www.palmbeachstate.edu/testing/testscores.aspx.)

<table>
<thead>
<tr>
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<th>Reading/Verbal</th>
<th>Writing/English</th>
<th>Mathematics/Algebra</th>
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<tr>
<td>PERT</td>
<td>106</td>
<td>103</td>
<td>114</td>
</tr>
</tbody>
</table>
PBSC Dual Enrollment Eligibility Requirements Continued

4. Submit a college application online (available at https://www.palmbeachstate.edu/admissions/admissions-applications.aspx.)

5. Enroll in a mandatory Palm Beach State Dual Enrollment orientation (available at https://www.palmbeachstate.edu/dualenroll/info-sessions.aspx.)

6. Obtain a "Dual Enrollment Permission and Registration" form from your high school counselor indicating course selection(s) submit to the Admissions Department of any campus of Palm Beach State College. **NOTE: This form must also be signed by the high school counselor, student, and a parent/guardian.**

7. Receive a grade of "C" or better on all college coursework.

To continue taking Dual Enrollment classes, students must:

1. Receive a grade of "C" or better on all college coursework.
2. Maintain a cumulative 3.0 unweighted high school GPA.

Suncoast offers the following **Dual Enrollment** courses:

<table>
<thead>
<tr>
<th>Mathematics (PBSC)</th>
<th>English (PBSC)</th>
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<td>English Literature Before 1800</td>
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<td>Differential Equations I</td>
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<tr>
<td>Linear Algebra</td>
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<td>Discrete Math</td>
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</tbody>
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**Course Description Key:**

**Y:** Full-year course  **S:** Semester course  **Pre-req:** Course(s) required to be successfully completed prior to enrollment.

**G9:** 9th grade  **G10:** 10th grade  **G11:** 11th grade  **G12:** 12th grade
## Game and Simulation Foundations (8208110 - Y)
This course is an introduction to game and simulation concepts and careers, its impact on society and industry, and basic design concepts such as rule design, play mechanics, and media integration. Students will compare and contrast games and simulations, key development methodologies and tools, careers, and industry-related information. Also covered are strategies, processes, and methods for conceptualizing a game or simulation application; storyboarding techniques; and development tools. Hands-on activities are integrated into the curriculum. The culminating activity is the creation of a playable game.


Certification Opportunity: TBOOM003 – Toom Boom: Certified Associate (Storyboard Pro)

### Game and Simulation Design (8208120 - Y)  ◆ Pre-req: Game & Sim Foundations / Digital Information Technology

This course covers the fundamental principles of designing a game or simulation application, in particular Human Computer Interface rules, strategies and rules of play, conditional branching, design and development constraints, use of sound and animation, design tools, and implementation issues. Content includes market research, product design documentation, storyboarding, proposal development, and project report presentation emphasizing the techniques needed to develop well-documented, structured game or simulation programs. Hands-on activities are integrated into the curriculum. The culminating activity is the creation and presentation of a playable game with design documentation.


Certification Opportunity: TBOOM003 – Toom Boom: Certified Associate (Storyboard Pro)

### Game and Simulation Programming (8208330 - Y)  ◆ Pre-req: Game & Sim Design

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


### Multi-User Game and Simulation Programming (8208340 - Y)  ◆ Pre-req: Game & Sim Programming

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


### Commercial Photography Technology I (8772010 - Y)

This is an introductory course in 35mm camera operation. The use of various light meters as well as hand held light meters will be reviewed. Focusing systems are considered. Film types are compared to lighting conditions for proper exposures. Film loading and unloading are considered. The reciprocal value of apertures and shutter speeds are examined.


Certification Opportunity: ADOBE022 – Adobe Certified Associate (ACA) - Photoshop

### Commercial Photography Technology II (8772020 - Y)  ◆ Pre-req: Photo Tech I

This course instructs on the guidelines of composing within the photographic frame as well as posing one or more subjects for portraiture in the studio. Additionally, the guidelines for setting up a still life are introduced as are the other rules for arranging groups, determining format, color harmony, and perspective.


Certification Opportunity: ADOBE022 – Adobe Certified Associate (ACA) - Photoshop

### Commercial Photography Technology III (8772030 - Y)  ◆ Pre-req: Photo Tech II

This course is designed to expose the student to lighting techniques the coping of prints and employability skills.


Certification Opportunity: ADOBE022 – Adobe Certified Associate (ACA) - Photoshop

### AP Studio Art 2D (0109355 - Y)  ◆ Pre-req: See either Mrs. Murray-Johnson or Mr. Kopp

In this course, students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented.


Certification Opportunity: ADOBE022

### Engineering Technology I (8600570 - Y)

This course introduces students to the knowledge, human relations, and technological skills found today in technical professions.


Certification Opportunity: RECFN001 – RECF Pre-Engineering Certification
## Engineering Technology II (8600670 - Y)
This course provides students with an intermediate understanding of the knowledge, human relations, and technological skills found today in technical professions.

www.fldoe.org/core/fileparse.php/5655/urlt/0103678-8607000.rtf  
Certification Opportunity: RECFN001 – RECF Pre-Engineering Certification

## Technical Design I (8401010 - Y)
This course provides students with instruction in the characteristics and evolution of technology, underlying principles of design, and fundamental knowledge and skills in the use of illustration and drafting software. Content includes the use of essential application software. The ultimate output of this course is a student-created design portfolio.

www.fldoe.org/core/fileparse.php/18404/urlt/8401000-1718.rtf  
Certification Opportunity: ADESK002 – Autodesk Certified User – AutoCAD

## Technical Design II (8401020 - Y)  
Pre-req: Technical Design I
In this course, students learn more about the nature of design and drafting techniques for architectural purposes. Students receive instruction in a variety of technical illustrations commonly produced to depict architectural concepts and designs. Students are expected to continue collating their portfolio using exemplars of their work.

www.fldoe.org/core/fileparse.php/18404/urlt/8401000-1718.rtf  
Certification Opportunity: ADESK011 – Autodesk Certified User – Inventor

## Technical Design III (8401030 - Y)  
Pre-req: Technical Design II
This course provides students with instruction in advanced imaging techniques relative to both static and animated illustrations. Students will learn more about advanced techniques, and have an opportunity to research a project, design an appropriate solution, and present their results. The ultimate output of this course is the student’s presentation of a completed portfolio illustrating their best exemplars.

www.fldoe.org/core/fileparse.php/18404/urlt/8401000-1718.rtf  
Certification Opportunity: CNCSI001 – Mastercam Certified Programmer Mill Level 1 (CPgM1)

## Advanced Technology Applications (8601900 - Y)
This course provides students with the opportunity, to develop a project from "vision" to "reality". Working in teams to design, engineer, manufacture, construct, test, redesign, test again, and then produce a finished "project".

www.fldoe.org/core/fileparse.php/18404/urlt/8601900-1718.rtf  
Certification Opportunity: CNCSI001 – Mastercam Certified Programmer Mill Level 1 (CPgM1)

## AP Computer Science Principles (0200335 - Y)
Students will develop computational thinking vital for success across all disciplines. The course is unique in its focus on fostering student creativity. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using computer software and other technology to explore questions that interest them. They will also develop effective communication and collaboration skills, working individually and collaboratively to solve problems, and discussing and writing about the importance of these problems and the impacts to their community, society, and the world.

Certification Opportunity: MICRO104 – Microsoft Technology Associate (MTA) – Introduction to Programming Using JavaScript

## Java Programming Essentials (9007240 - Y)
This course focuses on computer programming concepts specific to the Java programming language.

www.fldoe.org/core/fileparse.php/18404/urlt/9007200-1718.rtf  
Certification Opportunity: MICRO114 – Microsoft Technology Associate (MTA) – Introduction to Programming Using Java

## AP Computer Science A (0200320 - Y)  
CS Pre-req: Java Pgm Essentials
Students will be introduced to fundamental computer science topics including problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language.


## Java Database Programming (9007260 - Y)  
CS Pre-req: AP CS A; Co-req: Applied Object-Oriented Java Programming
This course continues the study of computer programming concepts specific to the Java programming language.

http://www.fldoe.org/core/fileparse.php/18404/urlt/9007200-1718.rtf  
Computer Science/Technology

**Applied Object-Oriented Java Programming** (9007250 - Y) ♦ CS Pre-Req: AP CS A; Co-req: Java DB Pgm

This course continues the study of computer programming concepts specific to the Java programming language. [www.fldoe.org/core/fileparse.php/18404/urlt/9007200-1718.rtf](http://www.fldoe.org/core/fileparse.php/18404/urlt/9007200-1718.rtf)

**Java Programming Capstone** (9007270 - Y) ♦ CS Pre-req: Java DB Pgm and Applied Object-Oriented Java Programming

This course serves as the capstone course, providing students with the opportunity to apply acquired computer programming knowledge and skills specific to the Java programming language. The range of competencies students will be expected to demonstrate include project planning, design, documentation, Java programming, and reporting/presenting the results of the project. Each student will be expected to maintain a portfolio of the project and give a presentation of the completed work at the end of the course.

**Digital Information Technology** (8207310 - Y)

This provides a basic overview of current business and information systems and trends, and to introduce students to fundamental skills required for today's business and academic environments. Emphasis is placed on developing fundamental computer skills. Course content includes the exploration and use of: databases, the internet, spreadsheets, presentation applications, management of personal information and email, word processing and document manipulation, HTML, webpage design, and the integration of these programs using software that meets industry standards. [Digital Information Technology (8207310)](http://www.cpalms.org/Public/PreviewCourse/Preview/13190)

**Digital Electronics** (8600530 - Y)

Digital Electronics is the junior year engineering course designed for MSE students. The first semester focuses on programming and science and engineering applications in MATLAB. Students will also complete a science fair project to fulfill the MSE's program requirement for science fair. The second semester of the course focuses on constructing, programming, and analyzing electronic circuits. (The course is also available to CS student on the MSE math track.)

**Intensive Reading I, II, III** (1000410A/B/C - Y)

This course serves to accelerate the development of and strengthen reading and writing skills so students are able to successfully read and write grade level text independently. Instruction emphasizes reading comprehension, writing fluency, and vocabulary study through the use of a variety of literary and informational texts encompassing a broad range of text structures, genres, and levels of complexity. The course is designed to foster a love of reading in students as well as prepare them to pass State exams and meet with college or professional success. [http://www.cpalms.org/Public/PreviewCourse/Preview/13190](http://www.cpalms.org/Public/PreviewCourse/Preview/13190)

**AICE General Paper AS** (1009360 - Y)

This course promotes the skills of rational thought, persuasion, analysis, interpretation and evaluation; promote maturity of thought and clarity of expression; encourage the broad exploration and appraisal of social, cultural, economic, environmental, political, philosophical, scientific and technological issues; promote understanding and appreciation of individual, societal and cultural diversity; and to encourage independent, critical reading. [http://www.cie.org.uk/images/164550-2016-syllabus.pdf](http://www.cie.org.uk/images/164550-2016-syllabus.pdf)

**AP English Language & Composition** (1001420 - Y)

This course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. [http://media.collegeboard.com/digitalServices/pdf/ap/ap-course-overviews/ap-english-language-course-overview.pdf](http://media.collegeboard.com/digitalServices/pdf/ap/ap-course-overviews/ap-english-language-course-overview.pdf)

**AICE English Literature** (1005370 - Y) ♦ Grade 10 IB Requirement

In this course, students will study a range of texts in the three main forms: prose, poetry and drama. The course aims to enable students to enjoy the experience of reading literature; develop an appreciation of and an informed personal response to literature in different forms and from different periods and cultures; to communicate effectively and accurately in written form; to develop the skills of reading, analysis, and communication; analyze and evaluate writing methods used to create meaning and effects; and build a firm foundation for further study of literature. [https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-international-as-and-a-level-english-literature-9695/](https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-international-as-and-a-level-english-literature-9695/)
AP English Literature & Composition (1001430 - Y)
This course aligns to an introductory college-level literary analysis course. Students engage in close reading and critical analysis of imaginative literature to deepen understanding of the ways writers use language to provide both meaning and pleasure. Students will consider a work’s structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Assignments will include expository, analytical, and argumentative essays requiring analysis and interpretation of literary works.

AP Seminar (1700500 - Y)
AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

AP Research (1202380 - Y) ♦ Pre-req: AP Seminar
AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research based investigation to address a research question. Students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a research based investigation to address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of 4000–5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense.

Dual Enrollment (PBSC) Courses

English Literature Before & After 1800 (ENL2012 - S & ENL2022 - S) ♦ Pre-req: Score of 3 or better on the AP Lang exam.
Students will study writings produced in the British Isles from the beginnings to 1800 (first semester) and from 1800 to the present (second semester); and work on developing appreciation for major writers and their influences. Concurrently, students will focus on reading, interpreting and discussing the literature critically.

College Composition I & II (ENC1101 − S & ENC 1102* − S) ♦ Pre-req: ENC 1101 with a grade of C or higher.
ENC 1101 covers the fundamentals of academic writing, the writing process, the correct use of outside resources, and a review of mechanics, syntax and grammar. Students will develop strategies for planning and drafting an essay, developing a thesis, effectively incorporating and correctly documenting sources, and using effective diction, sentence structure and the conventions of standard English.
ENC 1102 teaches skills and techniques for argumentative research writing.
https://www.palmbeachstate.edu/catalog/current/courses/ENC/ENC1101.aspx
https://www.palmbeachstate.edu/catalog/current/courses/ENC/ENC1102.aspx

Fine Arts Courses with a star (✩) require students to participate in some fashion or manner (practice, rehearsals, performances, competitions, event coverage, etc.) outside of the regular school day. Please see the individual teachers to the specifics regarding the size and duration of the “after-hours” and “weekend” commitment.

Drawing I (0104340 - Y)
Students experiment with media and techniques used to create a variety of two-dimensional artworks through the development of skills in drawing. Students practice, sketch, and manipulate the structural elements of art to improve mark making and/or the organizational principles of design in a composition from observation, research, and/or imagination.
http://www.cpalms.org/Public/PreviewCourse/Preview/13657
**Drawing III Honors** (0104360 - Y)

Students demonstrate proficiency in the conceptual development of content in drawing to create self-directed or collaborative 2-D artwork suitable for inclusion in a portfolio. Students produce works that show evidence of developing craftsmanship and quality in the composition. Through the critique process, students evaluate and respond to their own work and that of their peers. Through a focused investigation of traditional techniques, historical and cultural models, and individual expressive goals, students begin to develop a personal art style. This course incorporates hands-on activities and consumption of art materials.

http://www.cpalms.org/Public/PreviewCourse/Preview/13659

**AP Studio Art: 2-Dimensional Design** (0109350 - Y)

Students will work with diverse media, styles, subjects, and content. Students’ required portfolios will consist of the following three sections: (1) The range of Approaches (Breadth) section illustrates a range of ideas and approaches to art making; (2) The Sustained Investigation (Concentration) sections shows sustained, deep, and multiperspective investigation of a student-selected topic; and (3) The Selected Works (Quality) section represents the student’s most successful works with respect to form and content. Students’ work will be informed and guided by observation, research, experimentation, discussion, critical analysis, and reflection, relating individual practices to the art world.


**Chorus V Honors** ★ (1303340 - Y)

This advanced class is designed for students with previous participation in high school chorus who have demonstrated a capacity for developing advanced listening/aural skills and vocal techniques, musical literacy, and choral performance. Chorus V focuses on development and application of these skills and provides opportunities for aesthetic engagement and making individual musical choices, where appropriate, while preparing a variety of high-quality choral literature.

http://www.cpalms.org/Public/PreviewCourse/Preview/13878

**Chorus VI Honors** ★ (1303350 - Y)

This advanced class is designed for students with a capacity for developing advanced listening/aural skills, performance techniques, and knowledge of vocal techniques, musical literacy, ensemble skills, and related musical knowledge. Focus is on managing, mastering, and refining skills and techniques via a variety of choral literature at a high level of artistic engagement.

http://www.cpalms.org/Public/PreviewCourse/Preview/13879

**AP Music Theory** (1300330 - Y)

This course corresponds to an introductory college music theory course. Musicianship skills, including dictation and listening skills, sight singing, and harmony, are an important part of the course as students will develop the ability to recognize, understand, and describe basic materials and processes of tonal music heard or presented in a score. Primary objectives include the development of aural skills and performance through the practice of sight singing. Students learn basic concepts and terminology by listening to and performing a wide variety of music. Also emphasized are notational skills, speed, and fluency with basic materials.


**Band V Honors** ★ (1302340 - Y)

This advanced course, designed for wind and percussion students with extensive experience in solo performance and larger performing ensembles, promotes significant depth of engagement and lifelong appreciation of music through performance and other experiences with sophisticated instrumental music, as well as creativity through composition and/or arranging. The course includes the development of advanced instrumental ensemble techniques and skills, extended music literacy and theory, and deep aesthetic engagement with a broad spectrum of high-quality repertoire, ranging from early music to the contemporary.

http://www.cpalms.org/Public/PreviewCourse/Preview/13854

**Band VI Honors** ★ (1302350 - Y)

This highly advanced course, designed for students with substantial experience in solo performance and larger performing ensembles, promotes significant engagement with and appreciation for music through performance of sophisticated wind and percussion literature. Study focuses on mastery of highly advanced music skills, techniques, and processes, as well as creativity through composition and/or arranging and use of current technology to enhance creativity and performance effectiveness.

http://www.cpalms.org/Public/PreviewCourse/Preview/13855

**Music Theory II Honors** ★ (1300310 - Y)

Students with prior music theory training study composition, form, and analysis, and develop individual aural skills. The aural, analytical, and cognitive skills expanded in this class inform the serious musician's performance abilities over a variety of styles and genres.

https://www.cpalms.org/Public/PreviewCourse/Preview/4050

**Music Technology and Sound Engineering III Honors** ★ (1304320 - Y)

Students expand their experience with music technology and sound engineering, integrating their knowledge of traditional musical elements with past and current technologies used to capture, create, mix, and present music. Students focus on deeper exploration of their own creative work, enhanced by their knowledge of music and other arts and sciences.

https://www.cpalms.org/Public/PreviewCourse/Preview/4054
**Eurythmics I ★ (1305300 - Y)**

This course helps student dancers develop basic skills in performing and evaluating choreographed performances as an independent ensemble and in cooperation with a music ensemble. Emphasis is placed on dance, equipment manipulation, precision, and the relationship between music and dance.  [http://www.cpalms.org/Public/PreviewCourse/Preview/13895](http://www.cpalms.org/Public/PreviewCourse/Preview/13895)

**Eurythmics IV ★ (1305330 - Y)**

Student dancers develop advanced skills in creating, performing, and evaluating choreographed performances as an independent ensemble and in cooperation with a music ensemble. Coursework focuses on dance, equipment manipulation, precision, and analysis of the relationship between music and dance. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom.  
[https://www.cpalms.org/Public/PreviewCourse/Preview/13898](https://www.cpalms.org/Public/PreviewCourse/Preview/13898)

**Debate I ★ (1007330 - Y)**

Students develop awareness, understanding, and application of language arts as it applies to oral communication concepts and strategies for public debate in a variety of settings. Content includes delivering and analyzing argument and debate formats; delineating and evaluating the argument and specific claims in oral or written text; demonstrating appropriate formal and informal speaking techniques for audience, purpose, and occasion; and using research and writing to support topics and points of view.  
[http://www.cpalms.org/Public/PreviewCourse/Preview/13229](http://www.cpalms.org/Public/PreviewCourse/Preview/13229)

**Debate III – VI Honors ★ (1007350/60/70/80 - Y) ★ Pre-req: Debate I; All higher level courses must be taken in sequence.**

**Debate III H:** The purpose of this course is to develop students' enhanced awareness, understanding, and application of language arts as it applies to advanced oral communication concepts and strategies for public debate in a variety of given settings.  
[https://www.cpalms.org/Public/PreviewCourse/Preview/17031](https://www.cpalms.org/Public/PreviewCourse/Preview/17031)

**Debate IV – VI H:** The purpose of these courses is to apply advanced oral communication concepts and strategies for public debate in a variety of given settings.  
[https://www.cpalms.org/Public/PreviewCourse/Preview/17032](https://www.cpalms.org/Public/PreviewCourse/Preview/17032),  [https://www.cpalms.org/Public/PreviewCourse/Preview/17033](https://www.cpalms.org/Public/PreviewCourse/Preview/17033) and  
[https://www.cpalms.org/Public/PreviewCourse/Preview/17034](https://www.cpalms.org/Public/PreviewCourse/Preview/17034)

**Debate III – VI H:** Content includes delivering and analyzing a variety of argument and debate formats; delineating and evaluating the argument and specific claims in an oral or written text; demonstrating appropriate formal and informal public speaking techniques for audience, purpose, and occasion; using research and writing skills to support selected topics and points of view; assessing the veracity of claims and the reliability of sources; demonstrating use of techniques for timing and judging debates and other forensic activities; and collaboration amongst peers.

**Journalism I (1006300 - Y)**

The purpose of this course is to enable students to develop fundamental skills in the production of journalism across print, multimedia, web, and broadcast/radio platforms and to develop knowledge of journalism history, ethics use, and management techniques related to the production of journalistic media.  
[http://www.cpalms.org/Public/PreviewCourse/Preview/13219](http://www.cpalms.org/Public/PreviewCourse/Preview/13219)

**Newspaper (1006331 - Y) ★ Pre-req: Journalism I**

This course focuses on the production of Suncoast’s school newspaper, The Legend. Students will learn the basics of graphic design in its various visual and verbal components; experiment with page layouts using InDesign desktop publishing; study the history of newspapers along with the production process and the vocabulary of the trade. Additionally, students will participate in fund-raising activities (ad sales) to raise revenue for production.) Students will photograph school events as well as classmaties around campus. These responsibilities are designed to help students learn the importance of setting goals and meeting deadlines.  
Certification Opportunity:  Adobe Certified Associate - Photoshop (creative cloud) – 022

**Yearbook (Y) ★ Pre-req: Journalism I**

Yearbook, all levels, are elective courses that give students marketable experience in print media publishing. Students in this course are tasked with creating Renaissance, Suncoast’s national award winning yearbook. Students will identify and report news-making events; incorporate journalistic forms, techniques, and knowledge to document a year in the history of Suncoast High School and its community. They will use Adobe InDesign and Photshop to produce layouts, photographs, graphic design, digital imaging, and manage the production of the Renaissance yearbook based on staff assignments. After school hours may at times be required in order to cover events, meet deadlines, or sell advertisements.  
Certification Opportunity:  Adobe Certified Associate, InDesign

**TV Production (8772110 - Y) ★ Pre-req: Journalism I**

TV Production, all levels, are elective courses which provide students with a hands-on introductory experience in media production. These intensive courses explore camera operation, script writing, lighting, audio production, and video editing. Students will be provided with all the basic skills necessary to produce Suncoast’s daily news program (WRSN), special video features, public service announcements, and commercials using Adobe Premiere Pro. Students are required to spend time outside of the classroom to videotape projects and cover events.  
Certification Opportunity:  Adobe Certified Associate, Premiere Pro
### Algebra I (1200310 - Y)

This course formalizes and extends the mathematics that students learned in the middle grades by deepening and extending understanding of linear and exponential relationships. Content includes relationships between quantities and reasoning with equations; linear and exponential relationships; descriptive statistics; expressions and equations; and quadratic functions and modeling.  


### Liberal Arts Mathematics I (1207300 - Y)

Recommended to be taken concurrently with Algebra I, this course focuses on reinforcing, deepening, and extending a student’s mathematical understanding of fundamental algebraic, geometric, and statistical skills.  

https://www.palmbeachschools.org/UserFiles/Servers/Server_270532/File/Curriculum/Middle%20&%20HS/Libera%20Arts%20Ma

### MYP Algebra I (1200395 - Y)

See Algebra I (1200310) – This MYP/honors-level course will proceed at a faster pace and explore concepts at deeper depth than its regular-level counterpart.  


### Geometry (1206310 - Y) ◆ Pre-req: Algebra I

This course formalizes and extends students' geometric experiences by exploring more complex geometric situations and deepening explanations of geometric relationships, moving towards formal mathematical arguments. Content includes: Congruence, proof, and constructions; similarity, proof, and trigonometry; extending to three dimensions; connecting algebra and geometry through coordinates; and circles with and without coordinates.  


### MYP Geometry (1206810 - Y) ◆ Pre-req: MYP Algebra I

See Geometry (1206310) – This MYP/honors-level course will proceed at a faster pace and explore concepts at deeper depth than its regular-level counterpart.  


### Algebra II (1200330 - Y) ◆ Pre-req: Algebra I and Geometry

This course builds on students' work with linear, quadratic, and exponential functions, to include polynomial, rational, and radical functions. Students work with function expressions, and expand their abilities to model situations and solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Content includes: Polynomials, rational, and radical relationships; trigonometric functions; modeling with functions; inferences and conclusions from data; and applications of probability.  


### MYP Algebra II (1200395 - Y) ◆ Pre-req: MYP Algebra I and MYP Geometry

See Algebra II (1200330) – This MYP/honors-level course will proceed at a faster pace and explore concepts at deeper depth than its regular-level counterpart.  


### Advanced Topics in Mathematics (1298310 - Y)

This course is designed for students who have completed both Geometry and Algebra II and would benefit from an extended and in-depth understanding of mathematical topics. Content includes: Fundamental concepts of logic, including Venn diagrams; structure and properties of the real and complex number systems; explorations of geometric relationships involving circles; relations, functions, and graphs extended to polynomial, exponential, and logarithmic functions; data analysis concepts and techniques, including introductory statistics and probability; arithmetic and geometric sequences and series; operations with matrices; introduction to trigonometric functions and their applications; and conic sections and their applications.  


### Math for College Readiness (1200700 - Y)

This course is for students who are not yet "college ready" in mathematics or simply need some additional instruction in content to prepare them for success in college level mathematics. This course incorporates the Florida Standards for Mathematical Practices as well as the following Florida Standards for Mathematical Content: Expressions and Equations, The Number System, Functions, Algebra, Geometry, Number and Quantity, Statistics and Probability, and the Florida Standards for High School Modeling. The standards align with the Mathematics Postsecondary Readiness Competencies deemed necessary for entry-level college courses.  

https://www.palmbeachschools.org/UserFiles/Servers/Server_270532/File/Curriculum/Middle%20&%20HS/Mathematics%20for%20College%20Readiness.pdf
<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td><strong>Linear Algebra</strong></td>
<td></td>
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<tr>
<td>mathematical induction, combinatorics, discrete probability, recursion, recurrence relations, and number theory.</td>
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<tr>
<td><strong>Discrete Mathematics</strong></td>
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<td>equations, orthogonal trajectories, electric networks, and inverse transforms.</td>
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<tr>
<td><strong>Differential Equations I</strong></td>
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<td>integrals.</td>
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<td><strong>Calculus III</strong></td>
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<td>infinite series.</td>
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<tr>
<td><strong>Differential Equations I</strong></td>
<td></td>
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<tr>
<td>includes first order and second order ordinary differential equations, the Laplace transform, differential operators, systems of equations, orthogonal trajectories, electric networks, and inverse transforms.</td>
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<tr>
<td><strong>Discrete Mathematics</strong></td>
<td></td>
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<tr>
<td>topics include logic, relations, basic set theory, countability and counting arguments, proof techniques, mathematical induction, combinatorics, discrete probability, recursion, recurrence relations, and number theory.</td>
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<tr>
<td><strong>Linear Algebra</strong></td>
<td></td>
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<tr>
<td>topics include vectors and vector spaces, linear transformations and matrices, rank and determinants, systems of linear equations, diagonalization, and characteristic values.</td>
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</tbody>
</table>

**MYP Pre-Calculus (1202380 - Y)** ◆ Pre-req: Algebra II Honors

This course examines systems of equations and inequalities, matrices, functions (including polynomial, rational, logarithmic, exponential, and trigonometric), analytical trigonometry, conic sections, limits and derivatives, sequence and series, vectors, and basic probability. A graphing calculator is required.


**Probability and Statistics with Applications Honors (1210300 - Y)**

This course covers the organization and interpretation of data using various graphs, calculation of measures of central tendency, calculation and interpretation of variance and standard deviation, determination of regression equations and calculation of correlation coefficients for sets of data, application of various sampling techniques, usage of various counting methods, permutations, and combinations, calculation and interpretation of probability for singular and compound events, interpretation and formulation of normal distributions, and application of the general principles of hypothesis testing.


**AP Calculus AB (1202310 - Y)** ◆ Pre-req: MYP Pre-Calculus

This course is devoted to topics in differential and integral calculus. It covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations.


**Mathematics**

**Trigonometry Honors (1211300 - S) / Math Analysis Honors (1201300 - S)** ◆ Pre-req: Algebra II

Trigonometry content includes trigonometric functions; analytic trigonometry; the laws of sines and cosines; polar coordinates; graphs of polar functions, DeMoivre's Theorem; vectors; and the Dot Product.


Math Analysis content includes functions and graphs; polynomial and rational functions; exponential and logarithmic functions, sine, cosine, and other trigonometric function graphs; matrices and determinants; and sequences and probability.


**AP Calculus AB (1202310 - Y)** ◆ Pre-req: Algebra II

This course introduces students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to Exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.


**AP Calculus BC (1202311 - Y)** ◆ Pre-req: AP Calculus AB

This course is devoted to topics in differential and integral calculus. It covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations.


**Dual Enrollment (PBSC) Courses**

**Calculus with Analytic Geometry II (MAC2312/4 credits - S)** ◆ Pre-req: AP Calc AB w/ a grade of "C" or better ◆ Gordon Rule

Calculus II: Topics include techniques of integration, conic sections, polar coordinates, parametric equations, applications, and infinite series.

http://www.palmbeachstate.edu/catalog/current/courses/MAC/MAC2312.aspx

**Calculus with Analytic Geometry III (MAC2313/4 credits - S)** ◆ Pre-req: MAC2312 w/ a grade of "C" or better ◆ Gordon Rule

Calculus III: Topics include solid analytic geometry and vectors in space, partial differentiation, multiple integration and line integrals.

http://www.palmbeachstate.edu/catalog/current/courses/MAC/MAC2313.aspx

**Differential Equations I (MAP2302/3 credits - S)** ◆ Pre-req: MAC2312 with a grade of "C" or better ◆ Gordon Rule

Differential Equations I: Topics include ordinary differential equations, the Laplace transform, differential operators, systems of equations, orthogonal trajectories, electric networks, and inverse transforms.

**Discrete Mathematics (MAD 2104/3 credits - S)** ◆ Pre-req: MAC1105 or higher ◆ Gordon Rule, computational

Discrete Mathematics: Topics include logic, relations, basic set theory, countability and counting arguments, proof techniques, mathematical induction, combinatorics, discrete probability, recursion, recurrence relations, and number theory.

**Linear Algebra (MAS 2103/3 credits - S)** ◆ Pre-req: MAC 2233, 2281, or 2311 with a grade of "C" or better

Linear Algebra: Topics include vectors and vector spaces, linear transformations and matrices, rank and determinants, systems of linear equations, diagonalization, and characteristic values.

http://www.palmbeachstate.edu/catalog/current/courses/MAS/MAS2103.aspx
Peer Counseling (1400310 – S/Y)

Suncoast’s Peer Mentoring opportunities build relationships at both of our partnering schools (Mary McCloud Bethune Elementary and John F. Kennedy Middle) as Suncoast juniors and seniors tutor students at both locations during the school day.

http://www.cpalms.org/Public/PreviewCourse/Preview/13233

The following semester electives are available to seniors only.
Note.. Students are permitted to take one semester only of each course.

Student Aide (STUDENTAIDE) ♦ Pre-req: 2.5 GPA / No referrals for the semester prior to enrollment / Professional and amicable disposition / Designated Assistant Principal approval

Student aide positions are granted to seniors on a first-come, first-serve basis. Students must be amenable to working with diverse staff and note that assignments may change on an as-needed basis.

Senior Privilege (SENIORPRIV) ♦ Pre-req: 2.5 GPA / On track for graduation / Transportation

Senior privilege allows senior students to either come to school late or leave early for a semester. Privilege periods are assigned to blocks 1, 2, 6, and 7 as well as to semester 1 or semester 2 randomly after students’ core courses are scheduled. Any students requesting a senior privilege must be willing and able to accept either morning or afternoon assignments. Additionally, students who have senior privilege are not permitted to come to campus early or stay on campus during their privilege period.

Physical Education

MYP Physical Education (1501305 - S) & MYP Personal Fitness (1501810 - S) Paired for all freshmen

These courses focus on both learning about and learning through physical activity. Content includes, but is not limited to physical and health-related knowledge (such as components of fitness, training methods, training principles, nutrition, lifestyle, biomechanics, exercise physiology, issues in sports, and first; aesthetic movement; team sports; individual sports; and international sports and activities (including athletic traditions and forms of movement beyond students' personal and cultural experiences.)


Weight Training I – III (1501340/50/60 – S)

The purpose of this course is to develop the physical skills necessary to be competent in many forms of movement as it relates to weight training. The integration of fitness concepts throughout the content is critical to the success of this course. Content includes knowledge of safety practices; assessment of health-related fitness; the importance and assessment of muscular strength and endurance; health problems associated with inadequate muscular strength and endurance; knowledge of skeletal muscles; sound nutritional practices related to weight training; and consumer issues. Level II is an extension of Level I and Level III is an extension of Level II.

http://www.cpalms.org/Public/PreviewCourse/Preview/235

Power Weight Training (1501410 - S) ♦ Pre-req: Member of a Suncoast Athletic Team

This course is designed to fit the needs of Suncoast's student athletes. Students will extend their knowledge and development of skills in weight training. Content includes knowledge of safety practices; assessment of health-related fitness; reinforcement of weight training concepts; and designing, implementing, and evaluating personal weight training programs.

Individual and Dual Sports I/II (1502410/20 - S)

These courses enable students to develop knowledge and skills in individual and dual sports to maintain health related fitness. Content includes safety practices; rules; terminology; etiquette; history of the sports; sportsmanship; correct technique in performing skills; consumer issues; benefits of participation; fitness activities; and assessment of skills.

Comprehensive Fitness (1501390 - S)

This course provides students with opportunities to acquire knowledge and concepts of all aspects of fitness and increase their total fitness level. Students will participate in an array of sports from yoga, pilates, and dance to flag football, badminton, and pickleball, in a variety of settings including the dance room, the weight room, the beach, and the pool.
MYP Biology (2000850 - Y)

This course introduces students to biological concepts and themes. Laboratory investigations include the use of scientific inquiry, research, measurement problem solving, laboratory apparatus and technologies, experimental procedures and safety procedures.

http://www.cpalms.org/Public/PreviewCourse/Preview/13083;

AP Biology (2000340 - Y) ◆ Pre-req: MYP Biology and MYP Chemistry

This college-level course allows students to cultivate their understanding of biology through inquiry-based investigations as they explore evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions.


MYP Chemistry (2003830 - Y)

This course is a rigorous study of the composition, properties, and changes associated with matter. Topics include heat, atomic structure, mole concept, reaction rates and equilibrium, solutions, and electrochemistry. Lab work includes the use of scientific inquiry, research, measurement, laboratory apparatus and technologies, experimental procedures and safety procedures.

http://www.cpalms.org/Public/PreviewCourse/Preview/13090;

AP Chemistry (2003370 - Y) ◆ Pre-req: MYP Chemistry and Algebra II

Through inquiry-based learning, students develop critical thinking and reasoning skills. Students cultivate their understanding of chemistry and science practices as they explore topics such as atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.


Anatomy and Physiology Honors (2000360 – Y)

The purpose of this course is to enable students to develop an understanding of the relationships between the structures and functions of the human body.

http://www.cpalms.org/Public/PreviewCourse/Preview/13080

Environmental Science Honors (2001341 - Y) ◆ Pre-req: MYP Biology, MYP Chemistry

This interdisciplinary course provides students with scientific concepts, principles, and methodologies required to identify and analyze environmental problems and to evaluate risks and alternative solutions for resolving and/or preventing them.


AP Environmental Science (2001380 - Y) ◆ Pre-req: MYP Biology, MYP Chemistry, Algebra

Students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them.


Physics I Honors (2003390 - Y) ◆ Pre-req: Geometry; Corequisite: Algebra II

This course will introduce and focus on the following concepts of physics: Motion and vectors; forces and motion; energy and systems; vibration, waves, and sound; light and optics; matter and energy; electricity and magnetism; and modern physics.

AP Physics I (2003421 - Y) ◆ Pre-req: Algebra II

This algebra-based, introductory college-level physics course has students cultivate their understanding of physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits.


AP Physics II (2003422 - Y) ◆ Pre-req: AP or Honors Physics I

This algebra-based, college-level course uses inquiry-based investigations to explore topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics.


AP Physics C: Mechanics (S) and Electricity & Magnetism (S) (Taken together) ◆ Pre-req: AP or IB Calculus, AP Physics I

Mechanics explores kinematics; Newton’s laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation.


Electricity and Magnetism explores electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism.

MYP World History (2109830 - Y)

This course is an in-depth study of the history of civilizations and societies, including North and South America. Students will be exposed to historical periods leading to the beginning of the 21st Century.

http://www.cpalms.org/Public/PreviewCourse/Preview/13372; http://www.cpalms.org/Public/PreviewCourse/Preview/13372

AP World History (2109420 - Y)

This course focuses on developing students’ understanding of the world history from approximately 8000 BCE to the present. Students investigate the content of world history for significant events, individuals, developments, and processes in six historical periods. Students explore five themes (interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; development and transformation of social structures) in order to make connections among historical developments in different times and places encompassing the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania.


AP Human Geography (2103400 - Y)

This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth’s surface. Students employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications.


Voluntary School/Community Service (2104330 - S)  Paired with AP US Government and Politics

Content emphasis for this course pertains to the concept of service to society and the engagement in activities that benefit communities. Content includes the identification of school or community challenges and needs, options for responding to identified needs, and the development and implementation of a personal plan for providing school or community service. A major component of these courses, the MYP Personal Project requires students to identify a specific community need, develop and implement a plan for services to meet that need, and submit an activity log documenting their actions. To receive credit for this course, documentation of at least 75 hours of school or community service must be provided.

http://www.cpalms.org/Public/PreviewCourse/Preview/13342

AP US Government and Politics (2106420 - S)  Paired with Voluntary School/Community Service

This course introduces the key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning to assess causes and consequences of political events, and interpret data to develop evidence-based arguments.


AP United States History (2100330 - Y)

This course helps students to think conceptually about U.S. history from approximately 1491 to the present. Seven themes—identity; peopling; politics and power; work, exchange, and technology; America in the world; environment and geography; and ideas, beliefs, and culture—are investigated and require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places.


African-American History Honors (2100336 - S)

This course examines the chronological development of African Americans by examining political, economic, social, religious, military and cultural events. Content includes West African heritage, the Middle Passage and Triangular Trade, the African Diaspora, significant turning points and trends in the development of African American culture and institutions, enslavement and emancipation, the Abolition, Black Nationalist, and Civil Rights movements, major historical figures and events in African American history, and contemporary African-American affairs.

http://www.cpalms.org/Public/PreviewCourse/Preview/14358

Holocaust History Honors (2100405 - S)

This course examines the events of the Holocaust (1933-1945), the systematic, planned annihilation of European Jews and other groups by Nazi Germany. Content includes the examination of 20th-century programs and of 20th and 21st-century genocides, investigation of human behavior during this period, and understanding of the ramifications of prejudice, racism, and stereotyping.

http://www.cpalms.org/Public/PreviewCourse/Preview/14361

Economics with Financial Literacy Honors (2102345 - S)

This course emphasizes the study of concepts and processes of the national and international economic systems. Content should include, but is not limited to, currency, banking, and monetary policy, the fundamental concepts relevant to the major economic systems, the global market and economy, major economic theories and economists, the role and influence of the government and fiscal policies, economic measurements, tools, and methodology, financial and investment markets, and the business cycle.

http://www.cpalms.org/Public/PreviewCourse/Preview/13397
<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AP Microeconomics</strong></td>
<td>2102360 - S</td>
<td>This introductory course focuses on the principles of economics that apply to the functions of individual economic decision-makers. The course also develops students’ familiarity with the operation of product and factor markets, distributions of income, market failure, and the role of government in promoting greater efficiency and equity in the economy. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. <a href="http://media.collegeboard.com/digitalServices/pdf/ap/ap-course-overviews/ap-microeconomics-course-overview.pdf">http://media.collegeboard.com/digitalServices/pdf/ap/ap-course-overviews/ap-microeconomics-course-overview.pdf</a></td>
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<tr>
<td><strong>AP Macroeconomics</strong></td>
<td>2102370 - S</td>
<td>This introductory course focuses on the principles that apply to an economic system as a whole. Emphasis is placed on the study of national income and price-level determination; it also develops students’ familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. <a href="http://media.collegeboard.com/digitalServices/pdf/ap/ap-course-overviews/ap-macroeconomics-course-overview.pdf">http://media.collegeboard.com/digitalServices/pdf/ap/ap-course-overviews/ap-macroeconomics-course-overview.pdf</a></td>
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<tr>
<td><strong>AP Comparative Government and Politics</strong></td>
<td>2106430 - S</td>
<td>This course introduces students to the rich diversity of political life outside the United States using a comparative approach to examine political structures; policies; and political, economic, and social challenges among six selected countries: Great Britain, Mexico, Russia, Iran, China, and Nigeria. Students study political institutions and processes, and analyze and interpret data to derive generalizations. Topics include comparative politics; sovereignty, authority, and power; political institutions; citizens, society, and the state; political and economic change; and public policy. <a href="http://media.collegeboard.com/digitalServices/pdf/ap/ap-course-overviews/ap-comparative-government-and-politics-course-overview.pdf">http://media.collegeboard.com/digitalServices/pdf/ap/ap-course-overviews/ap-comparative-government-and-politics-course-overview.pdf</a></td>
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<tr>
<td><strong>AP Psychology</strong></td>
<td>2107350 - Y</td>
<td>This course introduces students to the systematic and scientific study of human behavior and mental processes. Students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, analyze bias, evaluate claims and evidence, and effectively communicate ideas. <a href="http://media.collegeboard.com/digitalServices/pdf/ap/ap-course-overviews/ap-psychology-course-overview.pdf">http://media.collegeboard.com/digitalServices/pdf/ap/ap-course-overviews/ap-psychology-course-overview.pdf</a></td>
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<td><strong>AP European History</strong></td>
<td>2109380 - Y</td>
<td>◆ Pre-req: MYP or AP World History This course focuses on cultural, economic, political, and social developments. These focus areas provide context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. <a href="https://secure-media.collegeboard.org/digitalServices/pdf/ap/ap-course-overviews/ap-european-history-course-overview.pdf">https://secure-media.collegeboard.org/digitalServices/pdf/ap/ap-course-overviews/ap-european-history-course-overview.pdf</a></td>
</tr>
</tbody>
</table>
# World Language

Students' initial World Language course level is determined by a Suncoast-administered placement test.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spanish for Spanish Speakers I</strong> (0709300 - Y)</td>
<td>This course enables students whose heritage language is Spanish to develop, maintain, and enhance proficiency in their heritage language by reinforcing and acquiring skills in listening, speaking, reading, and writing, including the fundamentals of grammar. <a href="http://www.cpalms.org/Public/PreviewCourse/Preview/13823">http://www.cpalms.org/Public/PreviewCourse/Preview/13823</a></td>
<td></td>
</tr>
<tr>
<td><strong>MYP Spanish I/II/III</strong> (0708870/80/90 - Y)</td>
<td>The study of languages provides students with the opportunity to develop insights into the features, processes and craft of language and the concept of culture, and to realize that there are diverse ways of living, viewing and behaving in the world. The ability to communicate in a variety of modes, in more than one language, is essential to the concept of an international education. <a href="http://www.ibo.org/globalassets/digital-tokit/brochures/myp-brief_language-acquisition_2015.pdf">http://www.ibo.org/globalassets/digital-tokit/brochures/myp-brief_language-acquisition_2015.pdf</a></td>
<td></td>
</tr>
<tr>
<td><strong>AP Spanish Language and Culture</strong> (0708400 - Y)</td>
<td>This course emphasizes communication by applying interpersonal, interpretive, and presentational skills in real-life situations. Taught almost exclusively in Spanish, the course engages students in an exploration of culture in both contemporary and historical contexts. It develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). <a href="http://media.collegeboard.com/digitalServices/pdf/ap/ap-course-overviews/ap-spanish-language-and-culture-course-overview.pdf">http://media.collegeboard.com/digitalServices/pdf/ap/ap-course-overviews/ap-spanish-language-and-culture-course-overview.pdf</a></td>
<td></td>
</tr>
<tr>
<td><strong>AP Spanish Literature and Culture</strong> (0708410 - Y)</td>
<td>This course introduces students to representative texts from Peninsular Spanish, Latin American, and United States Hispanic literature. Students develop interpersonal, presentational, and interpretive communication proficiencies that increase their critical reading and analytical writing skills. Literature is examined within the context of its time and place. The course includes a strong focus on cultural connections and comparisons, including the exploration of various media such as art, film, and literary criticism. <a href="https://secure-media.collegeboard.org/digitalServices/pdf/ap/ap-course-overviews/ap-spanish-literature-culture.pdf">https://secure-media.collegeboard.org/digitalServices/pdf/ap/ap-course-overviews/ap-spanish-literature-culture.pdf</a></td>
<td></td>
</tr>
<tr>
<td><strong>MYP French I/II/III</strong> (0701870/80/90 - Y)</td>
<td>The study of languages provides students with the opportunity to develop insights into the features, processes and craft of language and the concept of culture, and to realize that there are diverse ways of living, viewing and behaving in the world. The ability to communicate in a variety of modes, in more than one language, is essential to the concept of an international education. <a href="http://www.ibo.org/globalassets/digital-tokit/brochures/myp-brief_language-acquisition_2015.pdf">http://www.ibo.org/globalassets/digital-tokit/brochures/myp-brief_language-acquisition_2015.pdf</a></td>
<td></td>
</tr>
<tr>
<td><strong>AP French Language and Culture</strong> (0701380 - Y)</td>
<td>This course emphasizes communication by applying interpersonal, interpretive, and presentational skills in real-life situations. Taught almost exclusively in French, the course engages students in an exploration of culture in both contemporary and historical contexts. Students develop an awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions). <a href="http://media.collegeboard.com/digitalServices/pdf/ap/ap-course-overviews/ap-french-language-and-culture-course-overview.pdf">http://media.collegeboard.com/digitalServices/pdf/ap/ap-course-overviews/ap-french-language-and-culture-course-overview.pdf</a></td>
<td></td>
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</tbody>
</table>
The IBDP curriculum is made up of the DP core and six subject groups. The DP core consists of Theory of Knowledge, the extended essay, and creativity, activity, service. Students choose courses from the following subject groups: Studies in language and literature; language acquisition; individuals and societies; sciences; mathematics; and the arts. Students may opt to study an additional science, individuals and societies, or language course, instead of a course in the arts. Students will take some subjects at higher level (HL) and some at standard level (SL). HL and SL courses differ in scope but are measured according to the same grade descriptors, with students expected to demonstrate a greater body of knowledge, understanding and skills at higher level. Each student takes at least three (but not more than four) subjects at higher level, and the remaining at standard level. Standard level subjects are comprised of 150 teaching hours. Higher level subjects are comprised of 240 teaching hours.

*All Suncoast DP students take English and History at the higher level.*

<table>
<thead>
<tr>
<th>Group 1: Studies in Language and Literature</th>
<th>Junior Year</th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1001820 IB English Literature III*</td>
<td>1001830</td>
<td>IB English Literature IV* (HL)</td>
</tr>
<tr>
<td>0708410 AP Spanish Literature</td>
<td>0708896</td>
<td>IB Spanish Language/Literature II (SL)</td>
</tr>
<tr>
<td>0708895 IB Span Lang/Lit I</td>
<td>0708897</td>
<td>IB Span Lang/Lit III (HL)</td>
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<thead>
<tr>
<th>Group 2: Language Acquisition</th>
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<tbody>
<tr>
<td>0708825 IB Spanish III</td>
<td>0708840</td>
<td>IB Spanish V (SL)</td>
</tr>
<tr>
<td>0708400 AP Spanish Language</td>
<td>070865</td>
<td>IB Spanish VI (HL)</td>
</tr>
<tr>
<td>0701825 IB French III</td>
<td>0701840</td>
<td>IB French V (SL)</td>
</tr>
<tr>
<td>0701380 AP French Language</td>
<td>0701865</td>
<td>IB French VI (HL)</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Group 3: Individuals and Societies</th>
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<tbody>
<tr>
<td>2100800 IB History of the Americas*</td>
<td>2109805</td>
<td>IB Contemporary History II* (HL)</td>
</tr>
<tr>
<td>2107900 IB Psychology I</td>
<td>2107810</td>
<td>IB Psych II (SL)</td>
</tr>
<tr>
<td>2102820 IB Economics II (SL)</td>
<td></td>
<td>Tested out G6 in junior year</td>
</tr>
<tr>
<td>2102810 IB Economics I</td>
<td>2102830</td>
<td>IB Economics III (HL)</td>
</tr>
<tr>
<td>2001375 IB Environmental Systems/Soc II (SL)</td>
<td></td>
<td>Tested out of G6 junior year</td>
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</tbody>
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<thead>
<tr>
<th>Group 4: Sciences</th>
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<tbody>
<tr>
<td>2000810 IB Biology II (SL)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2000805 IB Biology I</td>
<td>2000820</td>
<td>IB Biology III (HL)</td>
</tr>
<tr>
<td>2003805 IB Chemistry I</td>
<td>2003810</td>
<td>IB Chemistry II (SL)</td>
</tr>
<tr>
<td>2001375 IB Environmental Systems/Soc II (SL)</td>
<td></td>
<td>Tested out of G4 junior year</td>
</tr>
<tr>
<td>2003422 AP Physics II (IB)</td>
<td>2003850</td>
<td>IB Physics III (HL)</td>
</tr>
<tr>
<td>2003430 AP Physics C (MSE/IB)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0200800 IB CS I (CS/IB)</td>
<td>0200820</td>
<td>IB Computer Studies III (HL)</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Group 5: Mathematics</th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>IB Math Studies: Applications &amp; Interpretations I</td>
<td>IB Math Studies: Applications &amp; Interpretations II (SL)</td>
<td></td>
</tr>
<tr>
<td>IB Calculus: Analysis &amp; Approaches I</td>
<td>IB Calculus: Analysis &amp; Approaches II (SL)</td>
<td></td>
</tr>
<tr>
<td>IB Calculus: Analysis &amp; Approaches II (IB)(No test)</td>
<td>IB Calculus: Analysis &amp; Approaches III (HL)</td>
<td></td>
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</tbody>
</table>

| MAC2312 DE Calculus II/III (Math SL)      | MAS2103    | DE Linear Algebra / Discrete Math (Math HL) |
| MAC2313 (MSE/IB; CS/IB)                   | MAD2104    |                                                  |
| IB Math: Analysis and Approaches II (CS/IB) |         |                                                  |

| MAC2312 DE Calculus II/III (MSE/IB; CS/IB) | MAP2302   | DE Differential Equations I/Linear Algebra (Math HL) |
| MAC2313 (MSE/IB)                          | MAS2103   |                                                  |

<table>
<thead>
<tr>
<th>Group 6: Arts</th>
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<tbody>
<tr>
<td>0400810 IB Theatre I</td>
<td>0400820</td>
<td>IB Theatre II (SL)</td>
</tr>
<tr>
<td>0400830 IB Theatre III (HL)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0114815 IB Visual Arts I</td>
<td>0114825</td>
<td>IB Visual Arts II (SL)</td>
</tr>
<tr>
<td>0114835 IB Visual Arts III (HL)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1300816 IB Music I</td>
<td>1300818</td>
<td>IB Music II (SL)</td>
</tr>
<tr>
<td>1300820 IB Music III (HL)</td>
<td></td>
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</tr>
</tbody>
</table>

**IBDP Group 1: Studies in Language and Literature**

**IB Language A**

Suncoast’s IBDP requires IB English A: Literature at the Higher Level for the IB Diploma.

**IB English III (1001430B - Y)**

Taken in G11, students view literary works as products of art and their authors as craftsmen whose methods of production can be analyzed in a variety of ways and on many levels. Close reading will develop the students’ critical understanding of literary works. Students practice essay writing, analysis, discussion, and oral presentations to improve oral and written fluency. Literary selections expose students to perspectives that differ from their own culture, and challenge them to explore various relationships between different works and different cultures. The Works in Translation written assignment and the individual oral presentation satisfy IB course assessment requirements.

**IB English Literature IV (1001830 - Y) **

Pre-req: IB English III

Taken in G12, this course aims to develop the students’ powers of expression and appreciation of literature through the critical analysis of selected literary works. Students practice essay writing, discussion, and oral presentations to improve oral and written fluency. Studies in varied literature will expose students to perspectives that differ from their own, ultimately leading them to a deeper understanding of literature and humanity. The IB Formal Oral Commentary satisfies IB course requirements.

**IB English Literature IV**


**IBDP students seeking a Bilingual Diploma,** may do so by taking AP Spanish Literature junior year followed by IB Spanish A: Language and Literature II senior year. Students can also take Spanish A: Language and Literature I and Language and Literature III (HL).

**AP Spanish Literature (0708410 - Y)** (See previous listing for course description)

This course introduces students to representative texts from Peninsular Spanish, Latin American, and US Hispanic literature. Students develop interpersonal, presentational, and interpretive communication proficiencies that increase their critical reading and analytical writing skills. Literature is examined within the context of its time and place. Included is a strong focus on cultural connections and comparisons, including the exploration of various media such as art, film, and literary criticism.


**IB Spanish Language and Literature II (0708986 - Y)**

This course aims to develop skills of textual analysis and an understanding that texts can relate to culturally determined reading practices. Students are encouraged to question the meaning generated by language and texts, and develop an understanding of the ways in which formal elements are used to create meaning in a text. Core curriculum components include language in cultural context; language and mass communication; literature – texts and contexts; and literature – critical study.

**SL:** [http://www.ibo.org/globalassets/publications/recognition/1_langlitsl.pdf](http://www.ibo.org/globalassets/publications/recognition/1_langlitsl.pdf)

**IBDP Group 2: Language Acquisition**

**IB Language B**

The IB Language B classes provide the opportunity for students to acquire or develop an additional language and to promote an understanding of other cultures through the study of language. The courses aim to develop students’ intercultural understanding; enable them to understand and use the language studied in a range of contexts for a variety of purposes; encourage appreciation of different cultural perspectives; and provide opportunities for creativity and stimulation through an additional language.

Suncoast offers the following Language B courses:

- **IB Spanish III** (0708825 - Y)
- **IB Spanish IV** (0708840 - Y)
- **IB Spanish VI** (0708865 - Y)
- **IB French III** (0701825 - Y)
- **IB French IV** (0701840 - Y)
- **IB French VI** (0701865 - Y)

**IBDP Group 3: Individuals and Societies**

**IB History of the Americas (2100800 - Y) and Contemporary History II (2109805 - Y)**

Suncoast's IBDP requires IB History at the Higher Level for the IB Diploma.

Both courses are taught using a comparative and multi-perspective approach. Students study political, economic, social, and cultural history. Key concepts infused in study include change, continuity, causation, consequence, significance, and perspectives.

**HL:** [https://www.ibo.org/contentassets/5895a05412144fe890312bad52b17044/history-hl-2016-english-final-web-updated.pdf](https://www.ibo.org/contentassets/5895a05412144fe890312bad52b17044/history-hl-2016-english-final-web-updated.pdf)

**IB Psychology**

These courses aim to develop an awareness of how research findings can be applied to better understand human behavior and how ethical practices are upheld in psychological inquiry.

**IB Psychology I/II (2107800/10 - Y):** Core components of study include the biological, cognitive, and social cultural approaches to understanding behavior, and approaches to researching behavior. Additional topics may include abnormal, developmental, or health psychology; and/or psychology of human relationships. Students also will be introduced to experimental research methodology.

**IB Psychology III (2107820 - Y):** This course builds on the previous one and introduces qualitative research in psychology as well as the biological, cognitive, and sociocultural levels of analysis.

SL (Lvl I G11/Lvl II G12) or HL (Lvl I G11/Lvl III G12):


Suncoast FY21 Curriculum Guide - Page 19 of 23
IBDP Group 3: Individuals and Societies Cont.

**IB Economics**

These courses aim to enable students to develop an understanding of microeconomic and macroeconomic theories and concepts and their real-world application; to develop an appreciation of the impact on individuals and societies of economic interactions between nations; and to develop an awareness of development issues facing nations as they undergo the process of change.

**IB Economics I/II (2102810/20 - Y):** Core components include microeconomics, macroeconomics, international economics, and development economics.

**IB Economics III (2102830 - Y):** This course builds on the previous one and introduces the theory of firm and market structure, and terms of trade.


**IB Group 3 or 4: Individuals and Societies or Sciences**

**IB Environmental Systems and Societies (ESS)**

**IB Environmental Systems and Societies II (2001375 - Y)**

Core components of study include foundations of environmental systems and societies; ecosystems and ecology; biodiversity and conservation; water and aquatic food production systems and societies; soil systems and terrestrial food production systems and societies; atmospheric systems and societies; climate change and energy production; and human systems and resource use. [https://www.ibo.org/contentassets/5895a0541214fe890312bad52b17044/envyr-systems-2016-english-final-web.pdf](https://www.ibo.org/contentassets/5895a0541214fe890312bad52b17044/envyr-systems-2016-english-final-web.pdf)

**IBDP Group 4: Sciences**

Students explore the concepts, theories, models and techniques that underpin each subject area and through these develop their understanding of the scientific method. A compulsory project encourages students to appreciate the environmental, social and ethical implications of science. This exercise is collaborative and interdisciplinary and provides an opportunity for students to explore scientific solutions to global questions.

**IB Biology**

**IB Biology I/II (2000805/10 - Y)**

Core components of study include cell biology; molecular biology; genetics; ecology; evolution and biodiversity; and human physiology. This course includes a required 40-hour lab component.

**IB Biology III (2000820 - Y)◆ Pre-req: IB Biology I**

This course builds on the core components studied in IB Biology I as well as nucleic acids; metabolism, cell respiration, and photosynthesis; plant biology; genetics and evolution; and animal physiology. This course includes a required 60-hour lab component.


**IB Chemistry**

**IB Chemistry I (2003805 - Y)**

Core components of study include stoichiometric relationships; atomic structure; periodicity; chemical bonding and structure; energetics/thermochemistry; chemical kinetics; equilibrium; acids and bases; redox processes; organic chemistry; and measurement and data processing.

**IB Chemistry II (2003810 - Y)◆ Pre-req: IB Chemistry I**

These courses build on the core components studied in IB Chemistry I as well as atomic structure; the periodic table – the transition metals; chemical bonding and structure; energetics/thermochemistry; chemical kinetics; equilibrium; acids and bases, redox processes; organic chemistry; and measurement and analysis.


**IB Physics◆ Pre-reqs: AP Physics I and AP Physics II**

**IB Physics III (2003850 - Y)◆ Pre-req: AP Physics I and II**

Taken in G12, core components of study include measurements and uncertainties; mechanics; thermal physics; waves; electricity and magnetism; circular motion and gravitation; atomic, nuclear, and particle physics; energy production; wave phenomena; fields; electromagnetic induction; and quantum and nuclear physics.

IBDP Group 4: Sciences Continued

**IB Computer Science**  ◆ Pre-req: AP Computer Science A (Semester grade of A or B); Highly recommended: Successful completion of Pre-Calculus or Math Analysis & Trigonometry.

These courses require an understanding of the fundamental concepts of computational thinking as well as knowledge of how computers and other digital devices operate. The courses draw on a wide spectrum of knowledge, and enables and empowers innovation, exploration and the acquisition of further knowledge. Students study how computer science interacts with and influences cultures, society and how individuals and societies behave, and the ethical issues involved.

**IB Computer Studies I** (0200820 - Y)
Content builds on previously learned core concepts and introduces abstract data structures; resource management; and control. HL: [https://www.ibo.org/globalassets/publications/recognition/4_computerhi.pdf](https://www.ibo.org/globalassets/publications/recognition/4_computerhi.pdf)

**IB Computer Studies III** (0200820 - Y) ◆ Pre-req: IB Computer Studies I
Content builds on previously learned core concepts and introduces abstract data structures; resource management; and control. HL: [https://www.ibo.org/globalassets/publications/recognition/4_computerhi.pdf](https://www.ibo.org/globalassets/publications/recognition/4_computerhi.pdf)

IBDP Group 5: Mathematics

There are two new subjects in IB Mathematics designed to appeal to students with varying levels of ability and motivation in mathematics, but will be developing their mathematics fluency, their ability to think mathematically, to recognize mathematics around them and to be able to use their mathematics in either abstract or contextual settings.

**Mathematics: Applications and Interpretation:** These courses are designed for students who enjoy describing the real world and solving practical problems using mathematics; those who are interested in harnessing the power of technology alongside exploring mathematical models and enjoy the more practical side of mathematics.

**Mathematics: Analysis and Approaches:** These courses are intended for students who wish to pursue post-secondary studies in mathematics or subjects that have a large mathematical content; it is for students who enjoy developing mathematical arguments, problem solving and exploring real and abstract applications, with and without technology.

**NOTES:**
- Students enrolled in Algebra II in G10, will take IB Mathematics: Applications and Interpretations I in G11 and IB Mathematics: Applications and Interpretations II in G12.
- Students enrolled in Trigonometry and Math Analysis in G10, will take IB Mathematics: Analysis and Approaches II in G11 and can take IB Mathematics: Analysis and Approaches III in G12 (HL).

**Track 1:** Mathematics: Applications and Interpretation – Standard Level
1. **IB Mathematics: Applications and Interpretations I and II** ◆ Pre-req: Algebra II
   A two-year sequence with emphasis on modeling and statistics, and developing strong skills in applying mathematics to the real world. This course is designed for students interested in social sciences, natural sciences, medicine, statistics, business, engineering, economics, psychology, and design. Topics include numbers and algebra, functions, geometry and trigonometry, statistics and probability, and calculus. *(Underlined topics reflect main areas of focus.)*

**Track 2:** IB Mathematics: Analysis and Approaches – SL or HL
1. **IB Mathematics: Analysis and Approaches II and III** ◆ Pre-req: MYP Algebra II
   Emphasis on algebraic methods, and developing strong skills in mathematical thinking for real and abstract mathematical problem solving. This course is designed for students interested in mathematics, engineering, physical sciences, and economics. Topics include numbers and algebra, functions, geometry and trigonometry, statistics and probability, and calculus. *(Underlined topics reflect main areas of focus.)*

2. **IB Mathematics: Analysis and Approaches II** ◆ Pre-req: IB Mathematics: Analysis and Approaches I
   Emphasis on algebraic methods and developing strong skills in mathematical thinking for real and abstract mathematical problem solving. This course is designed for students interested in mathematics, engineering, physical sciences, and economics. Topics include numbers and algebra, functions, geometry and trigonometry, statistics and probability, and calculus. *(Underlined topics reflect main areas of focus.)*

**Track 3:** Mathematics – Higher Level (MSE/IB students)
1. (A) **Dual Enrollment Differential Equations/Linear Algebra** (MAS2103/MAP2302 – Y)
   - **Differential Equations I:** Topics include ordinary differential equations, the Laplace transform, differential operators, systems of equations, orthogonal trajectories, electric networks, and inverse transforms.
   - [http://www.palmbeachstate.edu/catalog/current/courses/MAP/MAP2302.aspx](http://www.palmbeachstate.edu/catalog/current/courses/MAP/MAP2302.aspx)
   - **Linear Algebra:** Topics include vectors and vector spaces, linear transformations and matrices, rank and determinants, systems of linear equations, diagonalization, and characteristic values.
   - [http://www.palmbeachstate.edu/catalog/current/courses/MAS/MAS2103.aspx](http://www.palmbeachstate.edu/catalog/current/courses/MAS/MAS2103.aspx)
IBDP Group 6: Arts

The subjects in the arts allow a high degree of adaptability to different cultural contexts. The emphasis is on creativity in the context of disciplined, practical research into the relevant genres. In addition, each subject is designed to foster critical, reflective and informed practice, help students understand the dynamic and changing nature of the arts, explore the diversity of arts across time, place and cultures, and express themselves with confidence and competence.

Students may opt to study an additional sciences, individuals and societies, or languages course, instead of a course in the arts.

IB Theatre

The theatre courses enable students to discover and engage with different forms of theatre across time, place and culture, promoting international-mindedness and an appreciation of the diversity of theatre.

**IB Theatre I** (0400810 – Y)

Students will explore theatre in a variety of contexts and understand how these contexts inform practice; understand and engage in the processes of transforming ideas into action; and develop and apply theatre production, presentation and performance skills, working both independently and collaboratively.

**IB Theatre II/III** (0400820/30 – Y)

Content builds on previously learned core concepts and pursue the goal of understanding and appreciating the relationship between theory and practice (theatre in context, theatre processes, presenting theatre.)


IB Music

Through the music courses, students develop their knowledge and potential as musicians, both personally and collaboratively. Involving aspects of the composition, performance and critical analysis of music, the course exposes students to forms, styles and functions of music from a wide range of historical and socio-cultural contexts. Students create, participate in, and reflect upon music from their own background and those of others. They develop practical and communicative skills which provide them with the opportunity to engage in music for further study, as well as for lifetime enjoyment.

**IB Music I** (1300816 – Y)

Students study musical perception (study, analysis, and examination, comparing and contrasting of musical cultures) as well as one of the following three options: creating, solo performing, or group performing.

**IB Music II/III** (1300818/20 – Y)

Content builds on previously learned core concepts and requires students to present both creating and solo performing.


IB Visual Arts

The visual arts courses encourage students to challenge their own creative and cultural expectations and boundaries. Students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with and critically reflect upon a wide range of contemporary practices and media.

**IB Visual Arts I** (0114815 – Y)

Students will make artwork that is influenced by personal and cultural contexts; become informed and critical observers and makers of visual culture and media; and develop skills, techniques and processes in order to communicate concepts and ideas.

**IB Visual Arts II/III** (0114825/35 – Y)

Content builds on previously learned core concepts and requires students to increase the number of pieces in their comparative study as well include analysis of the extent to which their own work and practices have been influenced by the art and artists examined. They will also add to their process portfolio work that evidences sustained experimentation, exploration, and manipulation and refinement of a variety of art-making activities.


IBDP and IBCP Curriculum and Core

For a detailed description of the IBDP curriculum and core components, please see: [https://www.ibo.org/programmes/diploma-programme/curriculum/](https://www.ibo.org/programmes/diploma-programme/curriculum/)

For a detailed description of the IBCP core components, please see: [https://www.ibo.org/programmes/career-related-programme/curriculum/the-cp-core/](https://www.ibo.org/programmes/career-related-programme/curriculum/the-cp-core/)

**Theory of Knowledge (TOK) I/II** (0900800/0900810 – S)

All IB students take TOK I second semester of their junior year and TOK II first semester of their senior year. These courses are about critical thinking and inquiring into the process of knowing, rather than about learning a specific body of knowledge. Key components include: Knowing about knowing (knowledge claims and knowledge questions); ways of knowing (language, sense perception, emotion, reason, imagination, faith, intuition, and memory); and areas of knowledge (mathematics, natural sciences, human sciences, arts, history, ethics, religious knowledge systems, and indigenous knowledge systems).

All IBCP students take Personal and Professional Skills I junior year and Personal and Professional Skills II senior year.

These courses are designed for students to develop attitudes, skills, and strategies to be applied to personal and professional situations and contexts now and in the future. Emphasis is on skills development for the workplace, as these are transferable and can be applied in a range of situations.