

# **New Dimensions High School**



**2025-2026  
Curriculum Guide**

# New Dimensions High School

4900 Old Pleasant Hill Road, Kissimmee, FL, 34759



## Mission Statement

The mission of New Dimensions High school is that learning is participatory, involving hope, curiosity, and commitment so that action becomes a legitimate result of learning.

## Vision Statement

To be an educational leader dedicated to excellence through commitment, collaboration, and community.

## Stay Connected with New Dimensions High School

	<a href="http://Newdimensionshs.com">Newdimensionshs.com</a>
	<a href="https://facebook.com/NDHSTigers">facebook.com/NDHSTigers</a>

# Table of Contents

<b>Section 1: Curriculum Overview</b>	
Course Levels	5
Grade Calculations	6
Graduation Requirements	7
Scheduling Policies & Procedures	11
<b>Section 2: Course Descriptions</b>	
English Language Arts	14
Mathematics	15
Science	17
Social Studies	18
Electives	21
CTE	34
Biomedical Program	34
<b>Section 3: Dual Enrollment</b>	
Dual Enrollment	35



## **Section 1: Curriculum Overview**

# Course Levels

## College/Career Prep

Often referred to as “regular” courses, this coursework will help to prepare you for graduation from high school by getting you ready for coursework at the next level or the career field. These courses create the framework for graduation requirements and the unweighted GPA coursework.

## Honors

Honors courses are designed to provide more academic rigor and will therefore demonstrate to college admissions officers your willingness to challenge yourself. Their increased rigor will also prepare you for the courses you will encounter in a college setting. In addition, when you do well in an honors course, you let college admissions officers know how you will do in a college level course. Select an honors course if you are looking to increase the academic rigor of your high school program. Honors courses are offered in all core academic areas and many elective areas so you can select the content areas you wish to increase rigor. These courses are the first level of weighted GPA coursework.

## Advanced Placement

AP courses also provide even more academic rigor than Honors courses. They can demonstrate to college admissions officers not only your ability to handle college-level courses, but also your willingness to take on a challenge. These courses are designed to prepare students for the AP exams that accompany the course. Earning a 3 on the exam will demonstrate your competence in the subject and will earn you college credit in some colleges. These courses require nightly reading and, in most courses, extensive writing assignments or projects. These courses are the next level of weighted GPA coursework.

## Dual Enrollment

Like AP, Dual Enrollment courses are college level courses. The main difference is that you take the courses through actual college institutions so you get a head start on your college coursework while enrolled in high school. DE courses are FREE so successful completion can save you money on college tuition. Dual Enrollment courses can be completed with Valencia College. These courses also require nightly reading and, in most courses, extensive writing assignments. They receive the same amount of weighted GPA points as AP courses.

# Grade Calculations

## Grading Scale

The following is the letter grade given for each range of grade percentages for a course in Osceola County.

Letter Grade	Grade Percentage Range
A	90-100%
B	80-89%
C	70-79%
D	69-69%
F	0-59%

## Grade Point Average (GPA)

A student's GPA is calculated using the point system below. Beginning in grade nine, all subjects, whether passed or failed are included in the GPA computation. Grades and official GPAs are recorded in the student portal and on the official transcript in January and June (at the end of each semester). A minimum of a 2.0 unweighted GPA is required for graduation. Weighted points are given to Honors, AP, DE, and IB courses.

Letter Grade	Grade Percentage Range	Standard Points	Honors Points	AP/DE
A	90-100%	4.00	4.50	5.00
B	80-89%	3.00	3.50	4.00
C	70-79%	2.00	2.50	3.00
D	69-69%	1.00	1.50	2.00
F	0-59%	0.00	0.00	0.00

## Grade Forgiveness

Students who earn a D or F grade in a course may retake the course or a similar course to improve this grade. This higher grade (C or better) will be calculated for the student's GPA. However, the original grade will remain on the student transcript.

## Class Rank

Class rank is computed by the Student Information System (FOCUS) for all students at the completion of each semester. Class ranks are computed for both weighted and unweighted course grades. Weighted GPAs are used to determine the valedictorian and salutatorian at New Dimensions High School.

# Standard Diploma Requirements

## Academic Advisement – What Students and Parents Need to Know

### What are the diploma options?

Students must successfully complete one of the following diploma options:

- 24-credit standard diploma
- 18-credit Academically Challenging Curriculum to Enhance Learning (ACCEL)
- Career and Technical Education (CTE) Pathway
- Advanced International Certificate of Education (AICE) curriculum
- International Baccalaureate (IB) Diploma curriculum

### What are the state assessment requirements?

Students must pass the following statewide assessments:

- Grade 10 English Language Arts (ELA) or a concordant score
- Algebra 1 end of course (EOC) or a comparative score

Refer to [Graduation Requirements for Florida's Statewide Assessments](#) for concordant and comparative scores.

Students enrolled in the following courses must participate in the corresponding EOC assessment, which constitutes 30 percent of the final course grade\*:

- Algebra 1
- Geometry
- Biology 1
- U.S. History

\*Special note: Thirty percent not applicable if not enrolled in the course but passed the EOC (credit acceleration program [CAP]).

### What is the difference between the 18-credit ACCEL option and the 24-credit option?

- 3 elective credits instead of 8
- Physical Education is not required
- Online course is not required

### What is the difference between the CTE Pathway option and the 24-credit option?

- At least 18 credits are required
- 4 elective credits instead of 8
  - 2 credits in CTE courses, must result in completion and industry certification
  - 2 credits in work-based learning programs or up to 2 elective credits including financial literacy
- Physical Education is not required
- Fine and Performing Arts, Speech and Debate, or Practical Arts is not required
- Online course is not required

### 24 Credit Standard Diploma

<b>4 Credits ELA</b>
<ul style="list-style-type: none"> <li>• ELA 1, 2, 3, 4</li> <li>• ELA honors, Advanced Placement (AP), AICE, IB and dual enrollment courses may satisfy this requirement</li> </ul>
<b>4 Credits Mathematics*</b>
<ul style="list-style-type: none"> <li>• One of which must be Algebra 1 and one of which must be Geometry</li> <li>• Industry Certifications that lead to college credit may substitute for up to two mathematics credits (except for Algebra 1 and Geometry)</li> <li>• An identified computer science** credit may substitute for up to one mathematics credit (except for Algebra 1 and Geometry)</li> </ul>
<b>3 Credits Science</b>
<ul style="list-style-type: none"> <li>• One of which must be Biology 1, two of which must be equally rigorous science courses</li> <li>• Two of the three required course credits must have a laboratory component</li> <li>• Industry Certifications that lead to college credit may substitute for up to one science credit (except for Biology 1)</li> <li>• An identified computer science** credit may substitute for up to one science credit (except for Biology 1)</li> </ul>
<b>3 Credits Social Studies</b>
<ul style="list-style-type: none"> <li>• 1 credit in World History</li> <li>• 1 credit in U.S. History</li> <li>• 0.5 credit in U.S. Government</li> <li>• 0.5 credit in Economics</li> </ul>
<b>1 Credit Fine and Performing Arts, Speech and Debate, or Practical Arts*</b>
<b>1 Credit Physical Education*</b>
<ul style="list-style-type: none"> <li>• To include the integration of health</li> </ul>
<b>8 Elective Credits</b>
<b>1 Online Course</b>
<p>Students must earn a 2.0 grade point average (GPA) on a 4.0 scale for all cohort years and pass statewide, standardized assessments unless a waiver of assessment results is granted by the IEP team for students with disabilities.</p>

\* Eligible courses are specified in the [Florida Course Code Directory](#).

\*\*A computer science credit may not be used to substitute for both a mathematics and science credit.

### Scholar Diploma Designation

In addition to the requirements of section (s.) [1003.4282](#), Florida Statutes (F.S.), a student must satisfy the following requirements (per. s. [1003.4285](#), F.S.):

- Earn 1 credit in Algebra 2 or an equally rigorous course
- Pass the Geometry EOC
- Earn 1 credit in Statistics or an equally rigorous mathematics course
- Pass the Biology 1 EOC\*
- Earn 1 credit in Chemistry or Physics
- Earn 1 credit in a course equally rigorous to Chemistry or Physics
- Pass the U.S. History EOC\*
- Earn 2 credits in the same World Language
- Earn at least 1 credit in an AP, IB, AICE or a dual enrollment course

\*A student is exempt from the Biology 1 or U.S. History EOC assessment if the student is enrolled in an AP, IB or AICE Biology 1 or U.S. History course; takes the respective AP, IB or AICE assessment; and earns the minimum score to earn college credit.

### Merit Diploma Designation

- Meet the standard high school diploma requirements
- Attain one or more [industry certifications](#) from the list established (per s. [1003.492](#), F.S.)

### What are the additional graduation options for students with disabilities ?

Two additional options are available only to students with disabilities. Both allow students to substitute a CTE course with related content for one credit in ELA 4, mathematics, science and social studies (excluding Algebra 1, Geometry, Biology 1 and U.S. History). The two options are as follows:

- Students with significant cognitive disabilities may earn credits via access courses and be assessed via an alternate assessment.
- Students who choose the academic and employment option must earn at least 0.5 credit via paid employment.

### What is the CAP?

The CAP allows a student to earn high school credit if the student passes an AP examination, a College Level Examination Program (CLEP) or a statewide course assessment without enrollment in the course. The courses include:

- Algebra 1
- Geometry
- Biology 1
- U.S. History



### State University System (SUS)

Admission into Florida's public universities is competitive. Prospective students should complete a rigorous course of study in high school and apply to more than one university to increase their chance for acceptance. To qualify to enter one of Florida's public universities, a first-time-in-college student must meet the following minimum requirements (credit earned by industry certification does not count for SUS admission):

- High school graduation with a standard diploma, a minimum of a 2.5 GPA, and admission test scores meeting minimum college-ready test scores per Board of Governors (BOG) Regulation 6.008
- 16 credits of approved college preparatory academic courses per BOG Regulation 6.002
- 4 English (3 with substantial writing)
- 4 Mathematics (Algebra 1 level and above)
- 3 Natural Science (2 with substantial lab)
- 3 Social Science
- 2 World Language (sequential, in the same language or other equivalents)
- 2 approved electives

[State University System of Florida](#)

### The Florida College System

The 28 colleges of the Florida College System serve nearly 800,000 students. Colleges offer affordable and stackable workforce credentials including certificate programs, associate in science degrees and associate in arts degrees, which transfer to a bachelor's degree program. Many colleges also offer workforce bachelor's degree programs in areas of high demand. All Florida College System institutions have open-door admissions for students who earned a standard high school diploma or an equivalent diploma or successfully earned college credit.

[Florida College System](#)

### Career and Technical Colleges and Centers

Florida also offers students 49 accredited career and technical colleges or centers throughout the state, which provide the education and certification necessary to work in a particular career or technical field. Programs are flexible for students and provide industry-specific education and training for a wide variety of occupations.

[Career and Technical Education Directors](#)

### Where is information on financial aid located?

The Florida Department of Education's Office of Student Financial Assistance administers a variety of postsecondary educational state-funded grants and scholarships.

[Office of Student Financial Assistance](#)



- **Concordant and Comparative Scores**—A student can also meet assessment graduation requirements by earning a concordant or comparative score as specified in [Rule 6A-1.09422](#), Florida Administrative Code (F.A.C.). Tables 3 and 4 below and on the following page show the concordant and comparative scores students may use to satisfy assessment graduation requirements.

**Table 3: Grade 10 ELA Concordant Scores**

Grade 10 FSA ELA or Grade 10 FCAT 2.0 Reading	
<b>Available for all students who entered grade 9 in 2010–11 and beyond:</b>	
SAT Evidence-Based Reading and Writing (EBRW) <sup>1</sup>	480
ACT English and Reading subtests <sup>2</sup>	18
<b>Available only for students who entered grade 9 prior to 2018–19:</b>	
SAT EBRW <sup>1</sup>	430
SAT Reading Subtest <sup>3</sup>	24
ACT Reading	19

<sup>1</sup> Administered in March 2016 or beyond. The combined score for the EBRW must come from the same administration of the Reading and Writing subtests.

<sup>2</sup> The average of the English and Reading subtests. If the average of the two subject test scores results in a decimal (.5), the score shall be rounded up to the next whole number. The scores for the English and Reading subject tests are not required to come from the same test administration.

<sup>3</sup> Administered in March 2016 or beyond. Students who entered grade 9 prior to 2018–19 may also use a concordant score of 430 on the SAT Critical Reading if administered prior to March 2016.

**Table 4: Algebra 1 EOC Comparative Scores**

Algebra 1 EOC (FSA or NGSSS)	
<b>Available for all students who entered grade 9 in 2010–11 and beyond:</b>	
PSAT/NMSQT Math <sup>1</sup>	430
SAT Math <sup>2</sup>	420
ACT Math	16
FSA Geometry EOC <sup>3</sup>	499
<b>Available only for students who entered grade 9 prior to 2018–19:</b>	
PERT Mathematics	97

<sup>1</sup> Administered in 2015 or beyond. Students who entered grade 9 in 2010–11 and beyond may also use a comparative score of 39 on PSAT/NMSQT Math if it was earned prior to 2015.

<sup>2</sup> Administered in March 2016 or beyond. Students who entered grade 9 in 2010–11 and beyond may also use a comparative score of 380 on SAT Math if it was earned prior to March 2016.

<sup>3</sup> Students eligible for either the FSA Algebra 1 EOC alternate passing score of 489 or the FSA Geometry EOC passing score of 492, as defined by [Rule 6A-1.09422\(6\)-\(7\), F.A.C.](#), may use the alternate passing score of 492 on the FSA Geometry EOC as an Algebra 1 EOC comparative score. See the Scholar Diploma Designation section on the next page for eligibility criteria.

# Scheduling Policies & Procedures

## Scheduling Procedures

Planning for next year's classes is an important decision involving numerous factors. This guide is designed to help you take an active role in this process. It highlights the numerous educational options offered at New Dimensions High School and provides brief program and course descriptions, prerequisites, and other information pertinent to this process. Please understand that it is very important that you choose classes for the upcoming year that will not only interest you, but that will challenge you as well. Students are encouraged to make careful decisions when selecting courses, as schedule changes are done on a very limited basis once school begins. While every effort is made to give students their top choices for courses, back up choices will be used in the event if a scheduling conflict, so they too should be selected carefully.

### Follow these steps to ensure a successful 2023-2024 school year:

1. CONSIDER your plans past graduation -- College? Military? Career? Technical School?
2. READ this Curriculum Guide carefully and consider all options.
3. REVIEW the graduation requirements on pages 8-10.
4. PAY ATTENTION to which requirements you have already completed, and which courses you still need to take next year. Consider prerequisites that need to be taken first, as well as courses which need to be repeated because of lost credit. Be sure to also consider past performance in similar coursework.
5. VERIFY your completed courses and test scores in FOCUS. Select appropriate course levels (standard, honors, or AP).
6. CHOOSE your electives (check for any prerequisites).
7. SELECT courses that will fulfill your goals for the future.

## Schedule Change Policy

Once the scheduling process has begun. For the academic benefit of the student and to limit the number of times a student's schedule is changed – very few schedule changes will be made during the school year. Please read further for information on the Add/Drop period and criteria for schedule changes before and during the school year.

**Please Note:** The NDHS Administration reserves the right to make schedule changes based on class size. The Florida Class Size Amendment may require balancing of courses after the school year begins and may impact student schedule changes. Students may also be required by Florida law or school district policy to take remediation courses based on standardized test scores from the FSA Tests and/or Florida EOC Assessments. Courses in this curriculum guide may also be dropped, if there is not sufficient demand for them.

## Add/Drop Window

Schedules for the upcoming school are typically released in late July (date to be announced). If a student needs to discuss or request a change to their schedule (see criteria below) they will be allowed to schedule an appointment with administration (dates & times to be determined) during the Add/Drop window.

### Note:

- Schedule changes will be considered based on the criteria below
- There will be no add/drop once the school year has begun.
- A change request may require an entire schedule to be altered to meet the request you have made - Including different teachers and different class periods

Changes will be granted for the following reasons:	Changes will not be granted for the following reasons:
<ul style="list-style-type: none"><li>• Duplicate Course</li><li>• Computer/Data entry error</li><li>• Credit already received for the course</li><li>• Course prerequisites not met</li><li>• Course needed for graduation</li><li>• Course passed in summer school</li></ul>	<ul style="list-style-type: none"><li>• Desire for a different teacher</li><li>• Desire for a different lunch period</li><li>• Course credit not required</li><li>• Signed up for virtual school</li><li>• Desire to raise GPA</li><li>• Do not like elective</li><li>• Failure to complete summer assignment</li></ul>

## Schedule Change Requests During the School Year

Only administrative schedule changes will be permitted during the school year. Administrative approval to drop a course during the school year will not be permitted unless the followed has occurred:

- Student has attended tutoring if available or utilized additional resources available
- Student/Parent/Teacher conference with the school counselor has taken place
- **Note:** Fees may apply for dropping an AP course after exam registration has occurred



**Section 2: Course  
Descriptions 2023-2024**

# English Language Arts

**Students will be required to take an English course all 4 years of High School regardless of credits**

## Required Courses for Graduation:

1001310

English 1

Credits: 1.0

Area: EN

Grades: 9

Prerequisite: None

The purpose of this course is to provide English 1 students, using texts of high complexity, integrated language arts study in reading, writing, speaking, listening, and language for college/career preparation and readiness.

1001320

English 1 Honors

Credits: 1.0

Area: EN

Grades: 9

Prerequisite: None

This is a fast paced, intense course in which students develop the foundation for reading and writing the English language. The first semester of this course will focus on student writing. Students will be introduced to research methods and will be expected to demonstrate mastery of these methods through written papers. Students who take this course should be self-motivated, ready for daily homework, and excited about enjoying intellectual pursuits in reading and writing.

1001340

English 2

Credits: 1.0

Area: EN

Grades: 10

Prerequisite: English 1

The purpose of this course is to provide grade 10 students, using texts of high complexity, integrated language arts study in reading, writing, speaking, listening, and language for college/career preparation and readiness.

1001350

English 2 Honors

Credits: 1.0

Area: EN

Grades: 10

Prerequisite: English 1

This is a high paced, challenging course in which students study world literature and non-fiction in its context throughout time. In depth analysis of texts through discussion and writing is the focal point, but the course also includes building and polishing skills in listening and viewing. Students will analyze authors' use of rhetoric, writing strategies, and literary devices in order to incorporate them into their own writing. Students who take this course should be motivated, prepared for daily homework, and enjoy intellectual pursuits. It is recommended that students take World History at the same time.

1001370

English 3

Credits: 1.0

Area: EN

Grades: 11

Prerequisite: English 2

The purpose of this course is to provide grade 11 students, using texts of high complexity, integrated language arts study in reading, writing, speaking, listening, and language for college/career preparation and readiness.

1001380

English 3 Honors

Credits: 1.0

Area: EN

Grades: 11

Prerequisite: English 2

This is a high paced, intense course in which students study American prose and literature. This course uses literature, American history, the arts and media to explore the development of literary thought in America. Students will study the literary and artistic heritage that has shaped the American society from the Native American through contemporary authors. Students will expand their proficiency as writers as this is a cornerstone of the class. Students who take this course should be self-motivated, ready for daily homework, and enjoy intellectual pursuits in reading and writing.

1001400

English 4

Credits: 1.0

Area: EN

Grades: 12

Prerequisite: English 3

The purpose of this course is to provide grade 12 students, using texts of high complexity, integrated language arts study in reading, writing, speaking, listening, and language for college/career preparation and readiness.

1001410

English 4 Honors

Credits: 1.0

Area: EN

Grades: 12

Prerequisite: English 3

This is a high paced, intense course in which students study British nonfiction and fiction. English IV honors focuses on British Literature; however, it is also a preparation for Freshmen Composition in college. Students will analyze literature to see the relationship between universal themes and the development of the English language. The course will emphasize reading, written literary analysis, vocabulary development, in-class discussions and oral presentations, in-class writing and time management and organization.

### **Additional English Language Arts Course**

1000412-1000418

Intensive Reading

Credits: 1.0

Area: EL

Grades: 9-12

Prerequisite: None

The purpose of this course is to provide instruction that enables students to develop and strengthen reading skills and also develop independent reading endurance.

1020860

Great Books Honors

Credits: 1.0

Area: EN

Grades: 11-12

Prerequisite: English 1

The purpose of this course is to enable students, using texts of high complexity, to develop knowledge of great literature through advanced integrated educational experiences of reading, writing, speaking and listening, and language. Emphasis will be on representative "great books," including ones with varied cultural influences, highlighting the major genres, themes, issues, and influences associated throughout the literary period.

1001405

English 4: Florida College Prep

Credits: 1.0

Area: EN

Grades: 12

Prerequisite: FSA Level 4-5

This course incorporates reading and writing study through writing a variety of informative texts using grade-level writing craft and through the in-depth reading and analysis of informational selections in order to develop critical reading and writing skills necessary for success in college courses. This course prepares students for successful completion of Florida college English courses. The benchmarks reflect the Florida Postsecondary Readiness Competencies necessary for entry-level college courses.

### **AP English Language Arts Courses:**

1001420

AP English Language and Composition

Credits: 1.0

Area: EN

Grades: 11-12

Prerequisite: English 2 Honors

The focus of this course is on the analysis of writing strategies, language, and rhetoric in a variety of nonfiction texts throughout time. It will also include the analysis of strategies, language, and rhetoric used in visual and auditory media, such as advertisements, documentaries, and speeches. Students will learn to incorporate these strategies in a variety of self-produced texts, specifically timed essays.

# Mathematics

**Students will be required to take a Math course all 4 years of High School regardless of credits**

## Required Courses for Graduation:

1200310

Algebra 1

Credits: 1.0

Area: A1

Grades: 9

Prerequisite: None

The purpose of this course is to develop algebraic concepts and processes that can be used to solve a variety of real world and mathematical problems. The content will include: structure and properties of the real number system, first-degree equations and inequalities, relations and functions, systems of linear equations and inequalities, polynomials, factoring, and quadratic equations. The course also includes instruction on proper use of graphing calculators. This course will provide a solid foundation for the study of more advanced mathematics.

1200320

Algebra 1 Honors

Credits: 1.0

Area: A1

Grades: 9

Prerequisite: None

More in-depth work in this honors course will prepare students for more advanced mathematics courses. The course features integrated use of the graphing calculator to develop an understanding of the concepts behind mathematics and to prepare students for the highly graphical nature of higher-level mathematical analyses. The content will include: exponents, order of operations, data analysis, first-degree equations and inequalities, polynomials, factoring, quadratic equations, and operations with radicals. This course will provide a solid foundation for the study of more advanced mathematics.

1206310

Geometry

Credits: 1.0

Area: GE

Grades: 9-10

Prerequisite: Algebra 1

The purpose of this course is to develop algebraic concepts and processes that can be used to solve a variety of real world and mathematical problems. The content will include: structure and properties of the real number system, first-degree equations and inequalities, relations and functions, systems of linear equations and inequalities, polynomials, factoring, and quadratic equations. The course also includes instruction on proper use of graphing calculators. This course will provide a solid foundation for the study of more advanced mathematics.

1206320

Geometry Honors

Credits: 1.0

Area: GE

Grades: 9-10

Prerequisite: Algebra 1

More in-depth work in this honors course will prepare students for more advanced mathematics courses. The course features integrated use of the graphing calculator to develop an understanding of the concepts behind mathematics and to prepare students for the highly graphical nature of higher-level mathematical analyses. The content will include: exponents, order of operations, data analysis, first-degree equations and inequalities, polynomials, factoring, quadratic equations, and operations with radicals. This course will provide a solid foundation for the study of more advanced mathematics.

## Additional Math Courses:

1200370 /1200370

Algebra 1-A/B

Credits: 1.0

Area: MA

Grades: 9

Prerequisite: None

The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. The critical areas, called units, deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear

trend, and students engage in methods for analyzing, solving, and using quadratic functions. The Standards for Mathematical Practice apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

**1200330**                      **Algebra 2**

Credits: 1.0                      Area: MA                      Grades: 9-12                      Prerequisite: Geometry

The purpose of this course is to continue the study of algebra and to provide the foundation for applying algebraic skills to other mathematical and scientific fields. The course includes the complex number system; solution strategies for linear equations, inequalities, and systems of equations and inequalities; polynomial and exponential functions; and probability and statistics. The course features integrated use of the graphing calculator and prepares students for the study of more advanced mathematics.

**1200340**                      **Algebra 2 Honors**

Credits: 1.0                      Area: MA                      Grades: 9-12                      Prerequisite: Geometry

The purpose of this course is to continue the study of algebra and to provide the foundation for applying algebraic skills to other mathematical and scientific fields. The course includes the complex number system; solution strategies for linear equations, inequalities, and systems of equations and inequalities; polynomial and exponential functions; and probability and statistics. Throughout this course, students focus on understanding through application rather than on rote memorization. The course features integrated use of the graphing calculator and prepares students for the study of more advanced Mathematics including Pre-Calculus, Calculus, and Statistics.

**1207350**                      **Mathematics for College Liberal Arts**

Credits: 1.0                      Area: MA                      Grades: 10                      Prerequisite: None

In Mathematics for College Liberal Arts, instructional time will emphasize five areas: (1) analyzing and applying linear and exponential functions within a real-world context; (2) utilizing geometric concepts to solve real-world problems; (3) extending understanding of probability theory; (4) representing and interpreting univariate and bivariate data and (5) developing understanding of logic and set theory.

**1200710**                      **Mathematics for College Algebra**

Credits: 1.0                      Area: MA                      Grades: 10-12                      Prerequisite: Geometry

This course reviews and builds upon important concepts from Algebra 1 while preparing students for future math courses.

**1202340**                      **Pre-Calculus Honors**

Credits: 1.0                      Area: MA                      Grades: 10-12                      Prerequisite: Algebra 2 Honors

**1200700**                      **Mathematics for College Readiness**

Credits: 1.0                      Area: MA                      Grades: 12                      Prerequisite: None

This course is targeted 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.



# Science

Students will be required to take a Science course all 4 years of High School regardless of credits

## Required Courses for Graduation:

### 2000310 [Biology 1](#)

Credits: 1.00      Area: BI      Grades: 9      Prerequisite: Physical Science Coursework

This course provides students with general exploratory experiences & activities in the fundamental concepts of life. Content includes scientific method, scientific measurement, laboratory safety & use of apparatus, cell biology, cell reproduction, basic principles of genetics, & classification and surveying of plants and animals.

### 2000320 [Biology 1 Honors](#)

Credits: 1.00      Area: BI      Grades: 9      Prerequisite: Physical Science Coursework

More in-depth work is required in this honors course that includes the study of scientific method and measurement, laboratory safety and use of apparatus, biochemistry, cell biology, cell reproduction, genetics, classification, taxonomy, and ecological relationships.

## Additional Science Courses:

### 2002480 [Forensic Science 1](#)

Credits: 1.00      Area: EQ      Grades: 9-12      Prerequisite: None

### 2001310 [Earth/Space Science](#)

Credits: 1.00      Area: EQ      Grades: 10-12      Prerequisite: None

### 20013400 [Environmental Science](#)

Credits: 1.00      Area: EQ      Grades: 10-12      Prerequisite: None

The purpose of this course is to enable students to develop knowledge of the ways that humans interact with the natural environment. The content should include, but not be limited to: implementation of scientific habits of mind – application of scientific knowledge, methodology, and historical context to solve problems, use of laboratory technologies, terminology, earth dynamics, influence of technology on environmental quality, environmental quality issues, use and conservation practices, biodiversity, environmental planning and waste management, environmental monitoring and policy, sustainable use of public land, characteristics of populations, biotic and abiotic environmental factors, energy production technologies and thermodynamics.

### 20013410 [Environmental Science Honors](#)

Credits: 1.00      Area: EQ      Grades: 10-12      Prerequisite: None

More in-depth work is required in this honors course that includes the ways that humans interact with the natural environment. The content should include, but not be limited to: implementation of scientific habits of mind – application of scientific knowledge, methodology, and historical context to solve problems, use of laboratory technologies, terminology, earth dynamics, influence of technology on environmental quality, environmental quality issues, use and conservation practices, biodiversity, environmental planning and waste management, environmental monitoring and policy, sustainable use of public land, characteristics of populations, biotic and abiotic environmental factors, energy production technologies and thermodynamics.

### 2003340 [Chemistry 1](#)

Credits: 1.00      Area: EQ      Grades: 10-12      Prerequisite: Biology & Algebra 1

This course provides students with the study of the composition, properties, and changes associated with matter. Content includes: classification and structure of matter, atomic theory, the periodic table, bonding, chemical formulas, chemical reactions and balanced equations, the behavior of gases, physical changes, acids, bases and salts, and energy associated with physical and chemical changes.

2003350      [Chemistry 1 Honors](#)

Credits: 1.00      Area: EQ      Grades: 9-12      Prerequisite: Biology & Algebra 1

This course provides students with a rigorous study of the composition, properties, and changes associated with matter. Content includes atomic structure, bonding, the periodic table, formulas, stoichiometry, phase changes, specific heat, equilibrium, solutions, acids, bases and salts, nuclear chemistry, gas laws, and organic chemistry.

## **AP Science Courses:**

2001380      [AP Environmental Science](#)

Credits: 1.00      Area: EQ      Grades: 10-12      Prerequisite: Biology

The purpose of this course is to provide a college level course in environmental science to prepare the student to seek credit and / or appropriate placement in college biological sciences programs. Topics include a study of the biosphere, its biotic and abiotic components, ecosystems of the world, bio geologic cycles, and current environmental issues. Success on the AP exam may result in college credit.

## **Social Studies**

### **Required Courses for Graduation:**

2109310      [World History](#)

Credits: 1.00      Area: WH      Grades: 10      Prerequisite: None

The purpose of this course is to enable students to understand their connections to the development of civilizations by examining the past to prepare for their future as participating members of a global community. Students will use knowledge pertaining to history, geography, economics, political processes, religion, ethics, diverse cultures, and humanities to solve problems in academic, civic, social, and employment settings.

2109320      [World History Honors](#)

Credits: 1.00      Area: WH      Grades: 10      Prerequisite: None

The purpose of this course is to enable students to understand their connections to the development of civilizations by examining the past to prepare for their future as members of a global community.

2100310      [US History](#)

Credits: 1.00      Area: AH      Grades: 11      Prerequisite: World History

The purpose of this course is to enable students to understand the development of the United States within the context of history with a major focus on the post- Reconstruction period. Students will use knowledge pertaining to history, geography, economics, political processes, religion, ethics, diverse cultures, and humanities to solve problems in academic, civic, social, and employment settings.

2100320      [US History Honors](#)

Credits: 1.00      Area: AH      Grades: 11      Prerequisite: World History

The purpose of this course is to enable students to understand in-depth the development of the United States within the context of history with a major focus on the post-reconstruction period. Students will use knowledge pertaining to history, geography, economics, political processes, religion, ethics, diverse cultures, and humanities to solve problems in academic, civic, social, and employment settings.

**2106310**      **US Government**

Credits: 0.5      Area: AG      Grades: 12      Prerequisite: American History

The purpose of this course is to enable students to gain an understanding of American Government and political behavior that is essential for effective citizenship and active involvement in a democratic American society.

**2106320**      **US Government Honors**

Credits: 0.5      Area: AG      Grades: 12      Prerequisite: American History

The purpose of this course is to enable students to gain an in-depth understanding of American government and political behavior that is essential for effective citizenship and active involvement in a democratic American society.

**2102320**      **Economics Honors**

Credits: 0.5      Area: EC      Grades: 12      Prerequisite: American History

The purpose of this course is to provide students with an in-depth knowledge and decision-making tools necessary for understanding how society organized its limited resources to satisfy its wants. Students will gain understanding of choices they must make as producers, consumers, investors, and taxpayers.

### **Additional Social Studies Courses:**

**2102372**      **Personal Financial Literacy (Elective)**

Credits: 0.5      Area: SS      Grades: 9-12      Prerequisite: None

The purpose of this course is to cover the basic principles needed for effective personal finance management, including the practical applications of money management, budgeting, taxes, credit, insurance, housing, investments and retirement planning.

**2107300**      **Psychology 1**

Credits: 0.5      Area: SS      Grades: 9-12      Prerequisite: Biology

Through the study of psychology, students acquire an understanding of and an appreciation for human behavior, behavior interaction and the progressive development of individuals. The content examined in this first introductory course includes major theories and orientations of psychology, psychological methodology, memory and cognition, human growth and development, personality, abnormal behavior, psychological therapies, stress/coping strategies, and mental health.

**2107310**      **Psychology 2**

Credits: 0.5      Area: SS      Grades: 9-12      Prerequisite: Psychology 1

Through the study of psychology, students acquire an understanding of and an appreciation for human behavior, behavior interaction and the progressive development of individuals. The content examined in this second introductory course includes statistical research, psychobiology, motivation and emotion, sensation and perception, states of consciousness, psychological testing, and social psychology.

## AP Social Studies Courses:

2107350

AP Psychology

Credits: 1.0

Area: SS

Grades: 11-12

Prerequisite: Biology

Students will acquire an understanding of and an appreciation for human behavior, behavioral interaction, and the progressive development of individuals. Course content will include, but will not be limited to the following: research methods, sensation and perception, cognition, learning, personality, abnormal psychology, treatment of psychological disorders, and social psychology.

## Elective Courses

### Drama/Theatre Arts

0400700

Music Theatre 1

Credits: 1.0

Area: PF

Grades: 9-12

Prerequisite: Requires Audition

Musical Theatre 1 focuses on, but is not limited to, acting, vocal performance, dance, movement, and staging. Students will also study the origins of this American art form, and how it has evolved to the present day, through the analysis and performance of groundbreaking musicals. The class is equal parts study and performance.

### Leadership

2400300

Leadership Development

Credits: 1.0

Area: EL

Grades: 11-12

Prerequisite: None

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

2400320

Leadership Strategies

Credits: 1.0

Area: EL

Grades: 12

Prerequisite: None

The purpose of this course is to provide formative opportunities to build on skills acquired in the *Leadership Techniques* course, including meetings skills, communication skills, motivational strategies, character development, group dynamics, community relations, data collection for project needs, evaluation of community organizations, purpose of local government, community service and personal and civic responsibility.

### Music

1302300

Band 1

Credits: 1.00

Area: PF

Grades: 9-12

Prerequisite: Keyboarding or Band

This class is designed for students having little or no previous band experience with woodwind, brass, and/or percussion instruments, promotes the enjoyment and appreciation of music through performance of high-quality, beginning wind and percussion literature from different times and places. Rehearsals focus on the development of critical listening/aural skills; rudimentary instrumental technique and skills, music literacy, and ensemble skills; and aesthetic musical awareness culminating in periodic public performances.

1302310

Band 2

Credits: 1.00

Area: PF

Grades: 9-12

Prerequisite: Band 1

This course is designed for students with at least one year of woodwind, brass, and/or percussion ensemble experience, promotes the enjoyment and appreciation of music through performance of high-quality wind and percussion literature.

**1303300**                      **Chorus 1—Beginning Choir**  
Credits: 1.00                      Area: PF                      Grades 9-12                      Prerequisite: None

This entry-level class, designed for students with little or no choral experience, promotes the enjoyment and appreciation of music through performance of beginning choral repertoire from a variety of times and places. Rehearsals focus on the development of critical listening skills; foundational instrumental technique and skills, music literacy, and ensemble skills; and aesthetic musical awareness culminating in periodic public performances.

**1301360**                      **Keyboard 1—Piano 1**  
Credits: 1.00                      Area: PF                      Grades: 9-12                      Prerequisite: None

Students build fundamental piano techniques while learning to read music, acquire and apply knowledge of basic music theory, and explore the role of keyboard music in history and culture. Beginning pianists develop skills in analytical listening and explore musical creativity in the form of basic improvisation and basic composition. Public performances may serve as a culmination of specific instructional goals.

## Physical Education

**3026010**                      **HOPE**  
Credits: 1.00                      Area: PE                      Grades: 9-12                      Prerequisite: None

The purpose of this course is to develop and enhance healthy behaviors that influence lifestyle choices and student health and fitness. Students will realize the full benefit of this course when it is taught with an integrated approach.

**15013310**                      **Basketball 1**  
Credits: 0.5                      Area: PE                      Grades: 9-12                      Prerequisite: None

The purpose of this course is to enable students to acquire basic knowledge of Basketball and develop skills in specified activities and improve health-related fitness.

**1503315**                      **Basketball 2**  
Credits: 0.5                      Area: PE                      Grades: 9-12                      Prerequisite: None

The purpose of this course is to provide more in-depth instruction of the fundamental skills, tactics, rules and etiquette in basketball. Introduction to systems of play will be included to enhance the student's understanding. Advanced skills and drills which directly affect student's physical and cognitive abilities will be covered. Students will participate in advanced individual and team techniques in relationship to basketball strategy. Participation in course activities will continue to enhance healthy behaviors that influence students to participate in physical activities throughout their life.

**1501310**                      **Fitness Lifestyle Design**                      **(Combines with Fitness Issues for Adolescence)**  
Credits: 0.5                      Area: PE                      Grades: 9-12                      Prerequisite: None

Students will discover habits of body and mind that will lead to a healthier lifestyle. They will measure their current fitness level, nutrition knowledge, and create a plan for achieving individual goals. During their fitness journey, they will learn the principles of strength and endurance training, lifetime fitness activity options, and essential nutrition to encourage lifetime optimal health.

**1501320**                      **Fitness Issues for Adolescence**                      **(Combines with Fitness and Lifestyle Design)**  
Credits: 0.5                      Area: PE                      Grades: 9-12                      Prerequisite: None

**1502410**                      **Individual and Dual Sports 1**                      **(Combines with Individual and Dual Sports 2)**

Credits: 0.5      Area: PE      Grades: 9-12      Prerequisite: None

[1502420](#)      [Individual and Dual Sports 1](#)      ([Combines with Individual and Dual Sports 1](#))  
Credits: 0.5      Area: PE      Grades: 9-12      Prerequisite: None

[1503350](#)      [Team Sports 1](#)  
Credits: 0.5      Area: PE      Grades: 9-12      Prerequisite: None

The purpose of this course is to develop the physical skills necessary to be competent in many forms of movement, knowledge of team sports concepts such as offensive and defensive strategies and tactics, and appropriate social behaviors within a team or group setting. The integration of fitness concepts throughout the content is critical to the success of this course.

[1503360](#)      [Team Sports 2](#)  
Credits: 0.5      Area: PE      Grades: 9-12      Prerequisite: None

The purpose of this course is to develop the physical skills necessary to be competent in many forms of movement, knowledge of team sports concepts such as offensive and defensive strategies and tactics, and appropriate social behaviors within a team or group setting. The integration of fitness concepts throughout the content is critical to the success of this course.

[1505500](#)      [Volleyball 1](#)  
Credits: 0.5      Area: PE      Grades: 9-12      Prerequisite: None

The purpose of this course is to enable students to acquire basic knowledge of Volleyball and develop skills in specified activities and improve health-related fitness.

[1505510](#)      [Volleyball 2](#)  
Credits: 0.5      Area: PE      Grades: 9-12      Prerequisite: None

The purpose of this course is to provide more in-depth instruction of the fundamental skills, tactics, rules and etiquette in volleyball.

## **World Languages**

[0708340](#)      [Spanish 1](#)  
Credits: 1.0      Area: FL      Grades: 9-12      Prerequisite: None

The purpose of this course is to introduce students to the Spanish language and its culture, and to develop communicative skills and cross-cultural understanding. This course is designed primarily for those students who have no background in the Spanish language.

[0708350](#)      [Spanish 2](#)  
Credits: 1.0      Area: FL      Grades: 9-12      Prerequisite: Spanish 1

The purpose of this course is to reinforce the fundamental skills acquired by the students in Spanish I. This course develops increased listening, speaking, reading, and writing skills, as well as cultural awareness.

[0708360](#)      [Spanish 3 Honors](#)  
Credits: 1.0      Area: FL      Grades: 10-12      Prerequisite: Spanish 2 or Native Speaker

The Purpose of this course is to enhance reading comprehension and to increase conversational skills. Focus is on the continuum of development in writing, reading, speaking and listening. Pieces of Spanish literature will be read and analyzed.

## AP World Language Courses:

0708400

AP Spanish Language

Credits: 1.0

Area: FL

Grades: 10-12

Prerequisite: Spanish 3 or Native Speaker

This course concentrates on reading, listening, speaking, and writing applications of the Spanish language. The content of this course is specified by the Advanced Placement Program. Success on the AP exam may result in college credit (determined by the college or university).

## Other Electives

1005365

Literature in the Media

Credits: 1.0

Area: EL

Grades: 11-12

Prerequisite: None

The purpose of this course is to enable students to develop knowledge of the narrative parallels between traditional (print) literary texts and 21st century (multimedia in all its digital platforms) texts. Through integrated educational experiences of extensive viewing and reading, writing, speaking, listening, and language, students will study a variety of digital platforms, film, and television, including the use of graphics in these formats.

1700370

Critical Thinking and Study Skills (Combines with Career Research)

Credits: 1.0

Area: EL

Grades: 11-12

Prerequisite: None

This course is designed to develop skills related to critical thinking, learning and problem solving, enabling students to enhance their performance in both academic and non-academic areas. Strategies for acquiring, storing and retrieving information, time management and organizational skills, critical thinking operations and processes, strategies for oral and written communication, and problem solving skills including test taking skills are an integral part of this course.

1700380

Career Research and Decision Making (Combines with Critical Thinking Skills)

Credits: 1.0

Area: EL

Grades: 11-12

Prerequisite: None

The purpose of this course is to develop career planning competencies, enabling students to make informed career choices and develop the skills needed to successfully plan and apply for college or a job.

The content should include, but not be limited to, the following:

- goal-setting and decision-making processes
- self-assessment
- sources of career information
- occupational fields and educational requirements -postsecondary education and training opportunities - writing, listening, viewing, and speaking skills for applications and interviews
- financial planning and sources of educational financial assistance
- career planning

## CTE Courses

### 8812000 Business Ownership

Credits: 1.0 Area: Grades: 9-12 Prerequisite: None

The purpose of this course is to prepare students for careers as entrepreneurs, present entrepreneurship as a career path worthy of consideration, provide students with the skills needed to realistically evaluate their potential as business owners and to develop the fundamental knowledge and skills necessary to start and operate a business.

### 8209510 Digital Design 1 (Adobe Photoshop, Adobe Illustrator)

Credits: 1.0 Area: PA Grades: 9-12 Prerequisite: None

This course provides competencies in presentation production issues, basic computer knowledge, illustration software, digital still photography, and photo editing software Photoshop. In this class, you will create things like: CD Covers, Video Game Covers, Music Posters, Cereal Boxes, and a Website based Portfolio showcasing your work.

### 8207310 Digital Information Technology (Inuit QuickBooks)

Credits: 1.0 Area: PA Grades: 9-12 Prerequisite: None

This course is designed to provide 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. The intention of this course is to prepare students to be successful both personally and professionally in an information based society. Digital Information Technology includes the exploration and use of: databases, the internet, spreadsheets, presentation applications, management of personal information and email, word processing and document manipulation, HTML, web page design, and the integration of these programs using software that meets industry standards.



## Biomedical Sciences Pathway

The Project Lead the Way (PLTW) Biomedical Sciences Program is a sequence of four courses which follows the PLTW Engineering Program's proven hands-on, real world problem-solving approach to learning.

Students explore the concepts of human medicine and are introduced to bioinformatics, including mapping and analyzing DNA. Through activities, like dissecting a heart, students examine the processes, structures, and interactions of the human body – often playing the role of biomedical professionals to solve mysteries. Think CSI meets ER. They also explore the prevention, diagnosis, and treatment of disease by working collaboratively to conduct investigation.

The PLTW program is designed to serve high school students of diverse backgrounds, helping them all to become college and career ready, from those already interested in STEM-related fields to those who are more inspired by the application of STEM than they are by traditional math and science courses.

### 8708110 Principles of the Biomedical Sciences

Credits: 1.0 Area: EQ Grades: 9-10 Prerequisite: Completion of or enrolled in Biology

Students investigate the human body systems and various health conditions. They determine the factors that led to the death of a fictional person and investigate lifestyle choices and medical treatments that



might have prolonged a person's life. This course is designed to provide an overview of all the courses in the Bio medical Sciences Program.

**8708120**                      **Human Body Systems**

Credits: 1.0                      Area: EL                      Grades: 10-12                      Prerequisite: Principles of the Biomedical Sciences

Students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of their human body, and use data acquisition software to monitor body functions.

### Dual Enrollment Options

Students have an option to enroll in Dual Enrollment opportunities through *Osceola Technical College (oTECH), Valencia College, University of Central Florida, or University of Florida*, while still a student at PHS. Students in the DE Program take a mix of high school and college courses, or a full schedule of college courses. Students accepted in to the DE Program will earn high school and college credit simultaneously.

#### Valencia College Admission Requirements

<https://valenciacollege.edu/admissions/dual-enrollment/>

Test scores	PERT	SAT	ACT
Reading	106	440	19
Math	114/123	440/500	19/21
English	103		17



GPA – 3.0 unweighted

You can register for up to 4 courses (13 credit hours) each Fall and Spring term; and 2 courses (7 credit hours) for the Summer term.