


# LYMAN HIGH SCHOOL



# CURRICULUM GUIDE 2021-2022

EMPOWER THE YOUTH OF TODAY TO INNOVATE TOMORROW



**GENERAL  
ELECTIVES**

**CTE**



**ACADEMY OF  
ENGINEERING**

**A-Z  
INDEX**

**CORE  
COURSES**



# CURRICULUM GUIDE 2021 - 2022

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## STUDENT SERVICES

ATTENDANCE, ESE MEETINGS AND RECORDS, PARENT TEACHER

CONFERENCES, TESTING, NEW STUDENT ENROLLMENT,

WITHDRAWALS, CLINIC, SKYWARD FAMILY ACCESS



# GENERAL INFORMATION

## HIGH SCHOOL SUMMER SCHOOL 2021

Scan the QR code below for the most up to date Summer School Information.



## SKYWARD FAMILY ACCESS

The SKYWARD Information Network is a website that allows parents/guardians to view the attendance, class assignments, and grades earned by their student. If you would like to register for this service, visit our Administration office to complete a form and verify that you are the parent on record. Once Lyman High has your letter and verified your ID, your account will be activated within 48 hours. Administration hours are 7:00 AM - 2:30 PM.

## DRIVER'S EDUCATION AFTERNOON PROGRAM

Course Number 1900310

An after school driver education program is offered each semester at three of the Seminole County High Schools. The program includes classroom instruction, range driving and on the road driving. Students must hold a valid Florida Learner's License to be eligible for the program. Students that successfully complete the program earn .5 credit. The program is open to all students in Seminole County regardless of the high school that they attend.

Students attend classes two days a week, either Monday & Wednesday or Tuesday & Thursday from 3:15-5:15 PM. Transportation is not provided. There is no cost for the program. Applications are available at the high schools.

\*This program is a collaborative effort between Seminole County Government, the municipalities; METROPLAN Orlando and Seminole County Public Schools in an effort to better prepare our teen drivers and enhance the safety on our roadways.

## NOTICE TO STUDENTS AND PARENTS

In an effort to provide educational enhancements for students beyond the curriculum routinely offered, donations in certain courses historically have been collected in Seminole County Public Schools on a voluntary contribution basis. Every encouragement is given to students and parents to assist Lyman High School in continuing the practice of course embellishment that these fees make possible. While such assistance is a practical requirement to maintain current practices, no student shall be denied the opportunity either to take any course or to participate fully in all aspects of a course in which donations are sought. Thank you for your understanding and commitment to excellence. Because of the numerous competitions and performance events for Band, ROTC, Chorus, Dance and Color Guard, donations may be required to cover the costs of uniforms, costumes, dry cleaning, workshops, clinics, etc. Additionally, student enrollment in special courses may be required for participation in these activities.



# REGISTRATION INFORMATION

For the most up to date registration information please scan the QR code below:



## COURSE WAIVERS/SUBSTITUTIONS

Students using a waiver or substitution may need to substitute other courses to meet the required number of credits for graduation. Please consult the SCPS Student Progression Plan for information on waivers for the requirements for physical education, fine arts and specific science courses prior to registration.

COURSE	WAIVER/ SUBSTITUTION APPLIES TO:
<p><b>Athletic Participation:</b> Students who participate in interscholastic sports at the varsity or sub-varsity level, for two years (2 full seasons) satisfy the ½ credit of Personal Fitness and ½ credit of elective physical education.</p> <ul style="list-style-type: none"> <li>Students who have taken or are currently enrolled in Personal Fitness or a PE elective may only waive the remaining .5 credit required to fulfill the graduation requirement.</li> </ul>	Physical Education graduation requirement including Personal Fitness
<p><b>Marching Band:</b> Completion with a grade of “C” or better of one semester in an official marching band class (Band I – VI) or in a physical activity class that requires participation in marching band activities as an extracurricular activity shall satisfy the ½ credit of elective PE credit. The student must still take Personal Fitness.</p> <ul style="list-style-type: none"> <li>This waiver may <u>not</u> be combined with the waiver for Personal Fitness through athletic participation.</li> <li>Marching band season is the first semester of the year only.</li> </ul>	Physical Education graduation requirement but not Personal Fitness
<p><b>Dance:</b> Students who complete a semester of dance may satisfy the ½ credit in physical education or ½ credit in performing fine arts (may not count for both requirements). This may not be used to satisfy the Personal Fitness requirement or the requirement for adapted physical education under an IEP or 504 Plan.</p>	Physical Education graduation requirement but not Personal Fitness
<p><b>JROTC/Performing Fine Arts/Physical Education:</b> Completion of two years in a JROTC class, a significant component of which is drills, shall satisfy the ½ credit requirement in physical education (not Personal Fitness) and the one credit requirement in performing arts.</p>	Physical Education graduation requirement (not Personal Fitness) and Performing Fine Arts
<p><b>JROTC/Physical Education:</b> A grade of “C” or better in a JROTC class, a significant component of which is drills, shall satisfy the ½ credit requirement in physical education. This may not be used to satisfy the Personal Fitness requirement or the requirement for adapted physical education under an IEP or 504 Plan.</p>	Physical Education graduation requirement but not Personal Fitness
<p><b>Computer Science:</b> An identified rigorous Computer Science course may substitute for up to one (1) math credit. The following courses offered at Lyman High School have been identified as meeting the substitution criteria.</p> <ul style="list-style-type: none"> <li>AP Computer Science Principles</li> <li>AP Computer Science A</li> </ul>	Math graduation requirement (excluding Algebra I and Geometry)

## COURSES EARNING THE REQUIRED PERFORMING FINE ARTS CREDIT FOR GRADUATION



- 2-DIMENSIONAL ART
- 3-DIMENSIONAL ART
- ACTING 1, 2, 3, 4
- AEROSPACE ENGINEERING
- AP ART 2D DESIGN PORTFOLIO
- AP ART 3D DESIGN PORTFOLIO
- AP ART HISTORY
- AP ART/DRAWING PORTFOLIO
- AP MUSIC THEORY
- BAND 1, 2, 5, 6
- BAND PERCUSSION 1, 2, 5, 6
- BUILDING TRADES & CONSTRUCTION 3
- CHORUS 1, 2, 3, 5, 6
- CHORUS HIGH/LOW 2, 3, 4
- CIVIL ENGINEERING & ARCHITECTURE
- CULINARY ARTS 2
- DANCE JV
- DANCE TECHNIQUE 1, 2, 3, 4
- DANCE VARSITY
- DIGITAL DESIGN 1, 2, 3, 4
- DIGITAL ELECTRONICS
- DIGITAL INFORMATION TECHNOLOGY
- DIGITAL MUSIC/SOUND ENGINEERING
- EARLY CHILDHOOD EDUCATION 3
- ENGINEERING DESIGN AND DEVELOPMENT
- ENVIRONMENTAL SUSTAINABILITY
- EURHYTHMICS 1, 2, 3, 4
- FASHION APPLICATIONS
- FASHION ESSENTIALS
- FASHION MARKETING MANAGEMENT
- FOUNDATIONS OF ROBOTICS
- FOUNDATIONS OF WEB DESIGN
- INTRODUCTION TO ENGINEERING DESIGN
- JAZZ ENSEMBLE 1, 2, 3, 4
- JOURNALISM 1
- MARKETING APPLICATIONS
- MARKETING ESSENTIALS
- MARKETING MANAGEMENT
- MEDIA INTEGRATION ESSENTIALS
- MUSICAL KEYBOARDING 1, 2
- PORTFOLIO 1
- PORTFOLIO 2
- PRINCIPLES OF ENGINEERING
- ROBOTIC APPLICATIONS
- ROBOTIC DESIGN
- ROBOTIC SYSTEMS
- SPEECH 1/DEBATE
- SPORTS & ENT MARKETING APPLICATIONS
- THEATRE 2, 3, 4
- THEATRE DESIGN 1, 2, 3, 4
- TV PRODUCTION 1, 2, 3, 4, 5, 6, 7
- USER INTERFACE DESIGN
- WEB SCRIPTING FUNDAMENTALS

# DIPLOMA PATHWAY REQUIREMENTS

## CLASS OF 2022 - 2025

### STANDARD DIPLOMA PATHWAY

CREDIT REQUIREMENTS  
(must include one (1) online  
course)

- English Credits (English 1 – English 4) or equivalent accelerated course(s)-4 credits
- Math Credits Grades (9-12) (must include Algebra 1 & Geometry)-4 credits
- Science Credits (must include Biology I, (3) courses must contain a lab component, and 2 Equally Rigorously Courses)-4 credits
- Social Studies (must include World History, US History, 0.5 US Government & 0.5 Economics)-3 credits
- Fine or Performing Arts, Speech & Debate or Practical Art-1 credit
- ½ Personal Fitness and ½ PE Elective-1 credit
- Elective Credits-9 credits
- Have a minimum, cumulative GPA of at least a 2.0 on a 4.0 scale
- \*\*An approved Computer Science course may take the place of a math or science credit\*\*

TESTING REQUIREMENTS

- Passing Score on: Grade 10 ELA FSA or concordant score & Algebra 1 EOC or comparative score
- EOC's in Algebra 1\*, Geometry, Biology I & US History will count as 30% of the students overall grade
- \*\*A passing industry certification may take the place of a science or math credit\*\*
- Industry certifications that lead to college credit may substitute for up to two mathematics credits (except for Algebra I and Geometry).
- An industry certification that leads to college credit substitutes for up to one science credit (except for Biology I).

### SCHOLARS DIPLOMA PATHWAY

CREDIT REQUIREMENTS OF A  
STANDARD DIPLOMA, PLUS:

- \*Earn (1) credit in Statistics or equally rigorous mathematics course
- \*Earn (1) credit in Algebra II or equally rigorous mathematics course
- \*Earn (1) credit in Chemistry or Physics
- \*Earn (1) credit in science course equally rigorous to Chemistry or Physics
- \*Earn (2) credits in the same world language course
- \*Earn (1) credit in Advanced Placement, International Baccalaureate, an Advanced International Certificate of Education, Dual Enrollment Course

TESTING REQUIREMENTS

- Passing Score on Grade 10 ELA, Algebra 1 EOC, Geometry EOC, Biology I EOC, and US History EOC

### MERIT DIPLOMA PATHWAY

CREDIT REQUIREMENTS OF  
STANDARD DIPLOMA, PLUS:

- REQUIREMENTS OF STANDARD DIPLOMA PLUS:
- \*Attain one or more Industry Certifications from the list established under S. 1003.492 F. S
- \*\*\*\*Industry Certification Courses which lead to college credit may be substituted for up to two math credits and/or one science credit excluding Algebra 1, Geometry and Biology\*\*\*

TEST REQUIREMENTS

- SAME AS THE STANDARD DIPLOMA

### SCHOLARS WITH DISTINCTION DIPLOMA PATHWAY

CREDIT REQUIREMENTS OF  
A SCHOLARS DESIGNATION  
PATHWAY, PLUS:

- \* Cumulative Weighted Grade Point Average of 3.75 or higher
- \* (3) Consecutive years in the same World Language
- \* (6) credits in AP or IB classes earning a grade of A or B or (4)AP or IB and (2) Dual Enrollment Credits
- \* (1) credit in Experimental Research or equivalent with a grade of A or B or (1) Extended Essay, Senior Portfolio or 4th year of World Language or (1) extra AP, IB or Dual Enrollment Credit.

TEST REQUIREMENTS

- SAME AS THE SCHOLARS DESIGNATION PATHWAY

### CTE (CAREER AND TECHNICAL EDUCATION) PATHWAY

REQUIREMENTS OF A  
STANDARD DIPLOMA (With  
exceptions listed here):

- \* Requires 18-credits
- \* 4 electives instead of 9
  - \* 2 credits in CTE Courses, must result in program 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

TEST REQUIREMENTS

- SAME AS THE SCHOLARS DESIGNATION PATHWAY

### BILITERACY DIPLOMA

CREDIT REQUIREMENTS OF  
STANDARD DIPLOMA, PLUS:

- \*Earn four world language course credits in the same world language
- \*Earn a cumulative grade point average of 3.0 or higher on a 4.0 scale
- \*Earn a qualifying score on a world language assessment

TEST REQUIREMENTS

- SAME AS THE STANDARD DIPLOMA, PLUS
- Qualifying score on a world language assessment

### ADVANCED PLACEMENT CAPSTONE DIPLOMA

CREDIT REQUIREMENTS OF  
STANDARD DIPLOMA, PLUS:

- REQUIREMENTS OF STANDARD DIPLOMA PLUS:
- \*Satisfactory completion of the AP Seminar course as determined by College Board
- \*Satisfactory completion of the AP Research course as determined by College Board
- \*Satisfactory completion of four AP courses as determined by College Board

TEST REQUIREMENTS

- SAME AS THE STANDARD DIPLOMA, PLUS
- Satisfactory completion of AP courses as determined by the College Board



## DIPLOMA PATHWAY REQUIREMENTS CONTINUED

### SEMINOLE COUNTY PUBLIC SCHOOL'S DIPLOMA PATHWAYS

In the spring of 2013 the Florida Legislature created new diploma options for the students of Florida. In doing so, they have offered students more choice as well as an opportunity to align their education to their future college and career plans. In Seminole County we refer to these new choices as Diploma Pathways. We call them Pathways because we believe that students should use their time in high school to embark on their own personal Pathway to success. Students may now choose a Pathway that will result in a standard high school diploma, a high school diploma connected with industry certification, a diploma designed to rigorously prepare them for the university setting, a diploma option in world languages, or an Advanced Placement diploma option.

Seminole County offers the Florida Seal of Biliteracy, which recognizes a high school graduate who has attained a high level of competency in one or world languages in addition to English. Beginning with the 2016-2017 school year, the Gold Seal/Silver Seal of Biliteracy will be awarded to high school students who earn a standard diploma and who earn four world language course credits in the same world language with a cumulative grade point average of 3.0 or higher on a 4.0 scale and achieve a qualifying score on a world language assessment.

The Advanced Placement Capstone Diploma is now being offered in partnership with College Board. Students who specialize in Advanced Placement courses and satisfactorily complete the AP Seminar, AP Research and four additional AP courses as determined by College Board are eligible for the AP Capstone Diploma. This diploma option is being offered at all Seminole County Public High Schools with the exception of Crooms Academy of Information Technology.

Beginning with the 2019-2020 school year students have the option to complete high school with the Career and Technical Education (CTE) Pathway option. Students must earn 18 credits with a cumulative GPA of 2.0 on a 4.0 scale. Two of the credits must be earned in CTE courses resulting in program completion and an industry certification. Two credits will be completed in work-based learning programs or substitute up to two credits of electives, including one-half credit in financial literacy for work-based learning program courses.

In the chart on page 4, you will find the Diploma Pathways and the corresponding expectations associated with each one. In addition to those offered by the state of Florida, Seminole County also offers the AP Capstone Pathway and Scholars with Distinction Pathway. These very rigorous Pathways will challenge even the most talented and dedicated students to an even higher level of academic accomplishment.

Seminole County will start each and every student on the Scholars Pathway. We want to ensure that students are setting their academic goals high as they begin high school. Through performance and self-selection, students and their families may opt to change Pathways as they progress through high school. Our goal is to have all students qualify to earn a Scholars Pathway diploma. In the end, regardless of the Pathway Diploma, we want every student in Seminole County to exit our school system as a graduate.

Your administrators and school counselors are available to provide further guidance on what each of the Pathways requires.



*“SIGNING DAY” 2019*

## EXCEPTIONAL STUDENT EDUCATION

The Exceptional Student Education Department is comprised of classes in the following divisions: Autism Spectrum Disorder (ASD), Emotionally Behavior Disorders (EBD), and Deaf/Hard of Hearing (D/HH), Mild/Moderate Intellectual Disability (MID), Physically Impaired (PI), Specific Learning Disabled (SLD), Gifted and Speech/Language Therapy. Admissions to the programs must be approved by the County Staffing Committee and students must have a current Individual Educational Plan (IEP) or Educational Plan (EP).

STANDARD DIPLOMA OPTIONS ARE THE SAME AS ANY OTHER STUDENT REQUIREMENTS (SEE PAGE 4).

#### SKILLS COURSES

- Social Personal Skills, 1 credit, 9-12
- Learning Strategies
- Job Experience Training (JET), Multiple Credits

#### AUTISTIC SPECTRUM DISORDERS

- ESE Skills for Autistic Students (1 credit) 9-12
- Social Skills for Students with ASD

#### ADDITIONAL PROGRAMS

- Occupational Therapy
- Physical Therapy

#### SPEECH AND LANGUAGE PROGRAM

- Speech Therapy
- Language Therapy
- Skills for Students Deaf/Hard of Hearing

#### MILD/MODERATE INTELLECTUAL DISABLED

- Career Prep

### ACCESS DIRECT INSTRUCTION COURSES

English	Math	Science	Social Studies
English 1	Algebra 1A	Biology	World History
English 2	Algebra 1B	Earth Space Science	United States History
English 3	Geometry	Integrated Science	United States Government (0.5)
English 4	Liberal Arts Math	Chemistry	Economics (0.5)

#### ADDITIONAL INFORMATION

**CONSULTATION** is for students who have an IEP but are not enrolled in any ESE classes. The monitoring teacher (case manager) consults with the general education teachers once a month about the students' progress.

**MONITORING** is for students who have an IEP but do not have any ESE classes. The students are required to meet with their assigned monitor teacher (case manager) on a weekly basis to discuss getting extra help, problem solving skills, organizational skills, grades, and behaviors. The students will have an 8th period on their schedule which will display name of the monitoring teacher (case manager).

**SUPPORT FACILITATION** is for students who have an IEP and are enrolled in regular education classes. The ESE teacher works side by side with the general education teacher in the classroom.

**ESE DIRECT INSTRUCTION** is for students who have an IEP and are in an ESE classroom setting with a certified ESE teacher.

**GIFTED** is for students who have an EP and are in an GIFTED classroom setting with a certified GIFTED teacher.

# COLLEGE ADMISSIONS TESTING

## 9TH GRADE PSAT, 10TH-11TH PSAT NMSQT

The PSAT is given once a year at Lyman High School in October. Based on performance, juniors may qualify for scholarships and are better prepared for the SAT and ACT. The National Merit Corporation uses the test results of the junior year to determine National Merit Scholarship Finalists, Semi-Finalists, National Achievement, and National Hispanic Scholarship winners.

## LYMAN TESTING CALENDAR



**REGISTER FOR  
THE ACT ONLINE:  
WWW.ACTSTUDENT.ORG**

**REGISTER FOR  
THE SAT ONLINE:  
WWW.COLLEGEBOARD.COM**



LAST DAY FOR SENIORS 2019

# SCHOLARSHIPS

## FLORIDA BRIGHT FUTURES SCHOLARSHIP PROGRAMS

All state scholarships, eligibility requirements and award amounts are subject to change. **PENDING LEGISLATIVE ACTION.** The Office of Student Financial Assistance (OFSA) within the Florida Department of Education administers the renewal and disbursement activities for the Florida Bright Futures Scholarship Program, which includes the Florida Academic Scholars Award (FAS), the Florida Medallion Scholars Award (FMS), and the Florida Gold Seal Vocational Scholars Award (FGS). Academic criteria for eligibility and award amounts are described below.

The Department of Education does not calculate your Bright Future GPA in the same manner as Seminole County Public Schools. Your weighted GPA for Bright Futures does not show on your transcript. Be aware of this difference when determining whether

you meet 3.0/3.5 grade point requirement. Access the web site "www.FloridaShines.org" which will evaluate your transcript for the Bright Futures Scholarships. If you have any questions, please see your counselor. **ALL STATE SCHOLARSHIPS, ELIGIBILITY REQUIREMENTS AND AWARD AMOUNTS ARE SUBJECT TO CHANGE PENDING LEGISLATIVE ACTION.**

Seniors who meet the preliminary qualifications can register online beginning October 1st.

## FLORIDA GOLD SEAL CAPE SCHOLARS AWARD (G.S.C.)

Public & Private Institution

Can only be used to fund a career education or certificate program. Upon completion of an associate in science degree program that articulates to a bachelor of science degree,

a GSC Scholar may also receive an award for a maximum of 60 credit hours toward a bachelor of science degree program. Upon completion of an associate in applied science program, a GSC Scholar may also receive an award for a maximum of 60 credit hours toward a bachelor of applied science degree program.

Required postsecondary credit

- Earn a minimum of 5 postsecondary credit hours through CAPE industry certifications which articulate for college credit.
- Community service, 30 hours

Up to date information regarding the Bright Future Program Qualifications can be found at:  
[WWW.FLORIDASTUDENTFINANCIALAID.ORG/SSFAD/BF/](http://WWW.FLORIDASTUDENTFINANCIALAID.ORG/SSFAD/BF/)

## SCHOLARSHIPS CONTINUED

### FLORIDA ACADEMIC SCHOLARS AWARD (F.A.S.)

Public & Private Institution

Students will be notified of their award amount during the summer after graduation.

Grade Point Average (GPA)

- 3.5 weighted GPA using the credits listed below, combined with test scores and community service hours listed below.
- May use up to 2 additional credits in subject areas below to raise GPA.
- NOTE: GPAs are not rounded

Required Credits

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

Community Service

- 100 hours (District approval needed for community service hours)

Test Scores

- Best combined score of 1330 SAT (based on combined critical reading and math sections only) or the best composite score of 29 for the ACT (excluding the writing section). \*
- The writing sections for both the SAT and ACT will not be used in the composite.
- SAT Subject Test exams are not used for Bright Future eligibility.
- ACT scores are rounded up for scores with .5 and higher; SAT scores do not require rounding.
- For spring eligibility evaluations, test dates through January 31 will be admissible.
- For summer eligibility evaluations, test dates through June 30 will be admissible.

Other Ways to Qualify

Students who meet any of the conditions listed below must also meet the community service hours requirement.

- National Merit or Achievement Scholars and Finalists
- National Hispanic Scholars

\* SAT and ACT Scores reflect requirements for Graduating Class of 2021 and beyond.

### FLORIDA GOLD SEAL VOCATIONAL SCHOLARS AWARD (G.S.V.)

Public & Private Institution

Can only be used to fund a career education or certificate program. Students will be notified of their award amount during the summer after graduation.

Grade Point Average (GPA)

- 3.0 weighted GPA using the core credits listed below
- 3.5 unweighted GPA in a minimum of 3 Career & Technical credits in one vocational program (taken over at least two academic years) combined with test scores listed below.
- NOTE: GPAs are not rounded

Required Credits

- 4 English
- 4 Math (including Alg. 1)
- 3 Natural Sciences (2 with substantial labs)
- 3 Social Sciences (Am. Hist., World Hist., Am. Govt. and Econ.)
- 1 Fine Art
- 1 PE (to include the integration of health)
- 16 credits

Community Service, 30 hours required

Test Scores

- Must earn the minimum score on each section of the CPT or SAT or ACT. A student must qualify on the ACT alone, the SAT alone, or the CPT alone. Test types cannot be combined.
- PERT, Please see counselor for scores needed.
- SAT Subscore: Reading 24, Writing 25, Math 24
- ACT: Reading 19, English 17, Math 19
- For spring eligibility evaluations, test dates through January 31 will be admissible.
- For summer eligibility evaluations, test dates through June 30 will be admissible.
- Sections of the SAT, ACT, or CPT from different test dates may be used to meet the test criteria.

Career & Technical Education programs

- Automotive, Building & Construction, Early Childhood, Marketing, TV Production, Web & Digital Design
- Successful completion of three consecutive courses with a 3.5 GPA in any one vocational area (taken over two academic years) constitutes a vocational program.
- May only be used to fund a career education or certificate program.

### FLORIDA MEDALLION SCHOLARS AWARD (F.M.S.)

Public & Private Institution

Students will be notified of their award amount during the summer after graduation.

Grade Point Average (GPA)

- 3.0 weighted GPA using the credits listed below combined with the test scores listed below
- May use up to 2 additional credits in subject areas listed below to raise GPA
- NOTE: GPAs are not rounded

Required Credits

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

Community Service, 75 hours

Test Scores

- Best combined score of 1210 SAT (based on the combined Critical Reading and Math sections only) or the best composite score of 25 on the ACT. (Writing section is excluded)
- SAT Subject Test exams are not used for Bright Future eligibility.
- ACT scores are rounded up for scores with .5 and higher.
- SAT scores do not require rounding.
- For spring eligibility evaluations, test dates through January 31 will be admissible.
- For summer eligibility evaluations, test dates through June 30 will be admissible.



“SIGNING DAY” 2019

ePathways is customized learning that results in our students being prepared for 21st century globally competitive work.

Seminole County Public Schools offers a variety of choice options to empower students to customize their educational pathway in preparation for college, careers, and citizenship. These options include Magnet Schools/Programs, Programs of Emphasis, Pre-Apprenticeship Training, Virtual School, Internships, After School Courses, and Computer Science Pathways. Each option has a unique application/registration process and eligibility requirements. Additionally, each high school's curriculum guide includes available Career & Technical Education programs—most of these options include opportunities for industry certification or college credit.

The following information and program descriptions acquaint students and parents with the additional high school options they can consider.

### MAGNET SCHOOLS/PROGRAMS

Magnet schools & magnet programs are high-quality and innovative educational programs that specialize in a particular theme and are open to all Seminole County students who meet the eligibility requirements.

**ELIGIBILITY:** Acceptance into a magnet school/magnet program for students applying for grade ten and above is contingent upon an administrative review of their transcripts.

**TRANSPORTATION:** Transportation is provided to all students who live more than 2 miles from the school/program.

**FOR MORE INFORMATION:** Contact the Student Assignment & Program Access Department at 407-320-0329 or view the website at [www.seminoleschoolchoices.us](http://www.seminoleschoolchoices.us).

#### CROOMS ACADEMY OF INFORMATION TECHNOLOGY

- AA Degree Pathway allows students to earn a degree from Seminole State College at no cost to the family
- Information technology industry certification opportunities allow students to earn career credentials that make them job ready upon graduation
- Annual TechFest provides students opportunities to interact with business leaders and showcase their skills and credentials to an authentic audience

#### ACADEMY OF HEALTH CAREERS

Seminole High School

- Health career industry certification opportunities allow students to earn career credentials that make them job ready upon graduation
- Authentic lab spaces on campus allow students to develop and practice clinical skills
- Career exploration through job shadowing and clinical experiences in local healthcare facilities

### ACADEMY OF ENGINEERING

Lyman High School

- The Academy of Engineering offers industry certification testing for all students which can lead to additional opportunities for post-secondary employment.
- Renowned Project Lead the Way (PLTW) curriculum emphasizes critical thinking, creativity, innovation, and real-world problem solving
- Students choose to explore an area of interest including aerospace engineering, digital electronics, civil engineering and architecture, and environmental sustainability

#### INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAM

Seminole High School

Winter Springs High School

- Taught by IB trained faculty, the international college prep curriculum allows students to explore the world from a variety of perspectives.
- The IB Diploma program has earned a reputation for rigorous assessment, helping IB diploma holders access the world's leading universities
- The IB Diploma program is ideal for knowledgeable and caring young people who are motivated to grow as individuals through significant academic challenge.
- Students applying for the IB Program zoned to Hagerty, Lake Howell, Oviedo, & Winter Springs High may only apply to attend Winter Springs High. Students applying for the IB Program zoned Lake Brantley, Lake Mary, Lyman, & Seminole may only apply to Seminole High.

### PROGRAMS OF EMPHASIS

A Program of Emphasis provides a structured study strand centered on a career pathway. Students who are zoned for the school may select the Program of Emphasis, and a limited number of seats in some of the programs listed in this guide may be available for 9th grade students who are not zoned to the school.

Acceptance for out-of-zone students to a Program of Emphasis is by application only. By signing the required transfer request form, parents and students agree to the commitment statements and understandings in the application.

**ELIGIBILITY:** Students must reside in Seminole County and submit a Program of Emphasis Transfer Application. Eligibility requirements, timelines, and the application process are described in detail on the Seminole County Public Schools Student Assignment & Program Access website: [www.seminoleschoolchoices.us](http://www.seminoleschoolchoices.us). Programs designated with an \* are not available as choice options and are currently only for students zoned to attend that school based upon their residence.

**TRANSPORTATION:** Transportation is NOT provided for Program of Emphasis transfers. Students may seek assistance for transportation if it is available through the Transportation Department's Ticket to Ride program. Details about this program may be found on the Student Assignment & Program Access website by clicking on the "Transportation" link.

**FOR MORE INFORMATION:** In-zone students should contact their school counselor, out-of-zone students may contact the Student Assignment & Program Access Department at 407-320-0329 or view the website at [www.seminoleschoolchoices.us](http://www.seminoleschoolchoices.us).

#### HAGERTY HIGH SCHOOL

##### MODELING, SIMULATION AND ANALYSIS

In the Modeling, Simulation and Analysis program students learn to navigate and create detailed models and simulations. This pathway has the potential to lead to high-paying careers in diverse fields related to modeling/simulation technologies and program management. This program includes industry certification.

#### OVIEDO HIGH SCHOOL

##### BIOSCIENCE TECHNOLOGY

The Bioscience Technology program provides preparation for the career fields of applied biology in industry, medicine, and agriculture. This program includes industry certification.





## LAKE BRANTLEY HIGH SCHOOL

### ACADEMY OF FINANCE

The Academy of Finance offers a curriculum comprised of finance and business technology including accounting applications and personal financial planning. This program includes industry certification.

### CREATIVE DESIGN AND ENTERTAINMENT

Central Florida is a hub for art and design entertainment, providing many job opportunities for those with a creative passion. Students have the opportunity to develop their artistic and digital skill set while preparing for a future career. This program includes industry certification.

## LAKE HOWELL HIGH SCHOOL

### CULINARY ARTS \*

The Culinary Arts program allows students to explore all facets of the culinary field, including entrepreneurship, in an industry-standard commercial kitchen. This program includes industry certification.

### CYBERSECURITY

The Cybersecurity program introduces and prepares students for careers in computer science and cyber-defense in multiple industries. This program includes industry certification.

### BUSINESS & ENTREPRENEURSHIP

The Business & Entrepreneurship curriculum introduces the broad spectrum of business, industry, and small business initiatives. Students meeting specific criteria will also have the opportunity to earn the credits required for an A.A. degree from Seminole State College as part of their high school curriculum. This program includes industry certification.

## LAKE MARY HIGH SCHOOL

### ADVANCED MANUFACTURING & INNOVATION

The Advanced Manufacturing program gives students the opportunity to design and prototype innovative products using high-tech, industry standard equipment. This program includes industry certification.

### FORENSIC SCIENCE & LEGAL STUDIES

This program of emphasis includes two tracks: Forensic Science uses groundbreaking, modern scientific technology in crime scene investigation, and Legal Studies teaches the foundations of our legal system. This program includes opportunities to earn dual enrollment credit.

## LYMAN HIGH SCHOOL

### NEW FOR 2021-2022!! ACADEMY OF BUILDING & DESIGN

Construction workforce demands in Central Florida continue to rise and career opportunities abound! All the information on this academy is on page 17.

## SEMINOLE HIGH SCHOOL

### AVIATION

The Aviation Program of Emphasis is designed to prepare students for employment or advanced training in the aviation industry. This program gives students relevant experience with tools, flight training materials, simulators, and actual aircraft: a Cessna 150 and Robinson R22HP helicopter. There are two programs in the academy: Aviation Maintenance and Avionics. This program includes industry certification.

### PROBLEM SOLVING INCUBATOR (PSI HIGH)

The future of high school: PSI High is an immersive, full-time program where students form teams with their peers and community partners to solve real-world problems. In an environment that looks more like a high-tech office than a classroom, students develop their interests and skills to earn high school credit through project-based work. Our learners are the innovators of tomorrow. The ideal student for PSI High is passionate about learning and improving personally in order to make a difference globally. This program includes industry certification.

## WINTER SPRINGS HIGH SCHOOL

### PUBLIC SERVICE ACADEMY

The Public Service Academy includes three pathways for students to learn about a variety of career opportunities. The pathways include: Principles of Teaching; Criminal Justice and Emergency Planning and Response. Students are provided preparation for various career fields in the public sector.

### RENEWABLE ENERGY

The Renewable Energy Program allows students to study energy technologies and the advantages, disadvantages, and limitations of renewable energy resources for a sustainable future. This program includes opportunities to earn dual enrollment credit.

## PRE-APPRENTICESHIP TRAINING

Don't leave high school with just a diploma—leave with a JOB! The Academy of Construction Technologies (ACT) develops a well-trained workforce in the construction industry by integrating academics and a paid work-site experience when available. ACT offers students age 16 and older the opportunity to begin a career in high school in building trades and construction design technology, which is offered at Lake Brantley HS, Lake Mary HS, and Lyman HS. Students must be on track for graduation and have a 2.0 GPA to participate.

## VIRTUAL SCHOOL

Virtual schools provide a high-quality education along with flexible options to meet the demanding schedule of the 21st century student. SCPS operates two virtual schools: Seminole County Virtual School (SCVS) is a franchise of Florida Virtual School, and Seminole Academy of Digital Learning (SADL) uses curriculum created or purchased by SCPS. Seminole also contracts with two other Florida school districts for additional full-time instruction options.

High School and Middle School student choices include SCVS full-time, SCVS part-time, SADL part-time, or full-time contracted district franchise. Full-time options allow students to earn a regular Florida high school diploma. Full-time enrollment in SCVS for semester 1 will be open from Mon. April 5, 2021 through Tue. July 20, 2021. Part-time options are available throughout the school year; virtual classes can be taken outside of the school day or during the school day at home or at the student's school in a virtual lab. Additionally, SCPS may offer virtual course enrollment over the summer (SCVS 365).

Why should students select a Seminole County Virtual School over other virtual providers?

- schedule flexibility
- full-time local teachers
- no waiting list to start classes
- optional face-to-face sessions
- tax dollars stay in Seminole County

For more information, please visit [www.scvs.us](http://www.scvs.us) or call 407-871-7287.

### What high school courses are available through Seminole County Virtual School?

Courses with a \* are available at both Standard and Honors level; H = honors class

Math: Algebra I\*, Geometry\*, Algebra II\*, Pre-Calculus (H), Calculus (H), Liberal Arts Math I, Math for College Readiness, AP Calculus AB, AP Calculus BC, AP Statistics

Language Arts: English I\*, English II\*, English III\*, English IV\*, English IV College Prep, AP English Language, AP English Literature

Social Studies: World History\*, U.S. History\*, AP U.S. History, Economics\*, AP Macroeconomics,

AP Microeconomics, U.S. Government\*, AP U.S. Government, AP Human Geography, AP Psychology

Sciences: Biology I\*, AP Biology, Earth Space Science\*, Chemistry\*, Physics\*, Marine Science\*, Physical Science\*, Anatomy & Physiology\*, Forensic Science

World Languages: French I, II & III\*, Spanish I, II & III\* IV\*, Spanish for Spanish Speakers I, American Sign Language I, II, III\*, IV\*

Electives: MANY options, including Personal Fitness/Fitness Lifestyle Design, Art, Guitar, AP Art History, Drivers Ed, Hospitality and Tourism and much more!

## INTERNSHIPS

Students in grades 11 and 12 may have the opportunity to participate in a paid or unpaid internship in some of our region's most in-demand fields. Academic credit will be earned upon successful completion of 133 hours of work along with other required assignments. Students can utilize flexible scheduling to work before, during, or after the school day to gain exposure to real-world working conditions. For more information about workplace learning opportunities, visit the ePathways website: <https://www.scps.k12.fl.us/district/departments/epathways/workplace-learning/>

Program Name	Hosting School	Course Codes	Course Description
Applied Robotics	Lake Mary	Yr. 1- 9410110X Yr. 2- 9410120X Yr. 3- 9410130X Yr. 4- 9410140X	This program provides students with the foundational knowledge and technically oriented experience in the study of the principles, applications and systems of robotics engineering and its effect upon our lives. The students in this program will build and participate in the FIRST Robotics Competition (FRC) at UCF. Students participating in the competition will be eligible to apply for participation in the \$80 million FIRST Scholarship Program. This course requires some Saturday participation.
Automotive Maintenance and Light Repair	Oviedo	Yr. 1- 9504110X Yr. 2- 9504120X Yr. 3- 9504130X	This program provides students with the theory and practical knowledge of basic automotive systems and principles, including internal combustion engine theory, shop safety, tool usage, shop measurement, use of shop manuals, automotive industry history and development, and preventative maintenance.
Aviation	Seminole	Yr. 1- 9540610X Yr. 2- 8715110X Yr. 3- 8715120X Yr. 4- 8715130X	Fly into the future with a career in aviation! This state-of-the-art program is designed to prepare students for pursuit of employment or advanced training in the commercial and general aviation industry. Throughout these courses, students will learn the fundamentals of flight including meteorology, navigation systems and procedures, flight planning skills, ground operations and service duties. Students will participate in project-based learning experiences by using general shop tools and flight training materials while exploring career opportunities and the requirements of a professional aviation mechanic or pilot.

## AFTER SCHOOL COURSES

SCPS offers several after school Career and Technical Education (CTE) courses for high school credit. Students can attend an after school course at any of the participating high schools regardless of the high school they currently attend. Transportation is not provided. Courses typically meet from 3:30-5:30 on Tuesdays and Thursdays unless otherwise noted. Students who would like to add an after school course to their schedule should register using the course codes provided below. Please note that courses are subject to cancellation due to low enrollment or change in instructor availability.

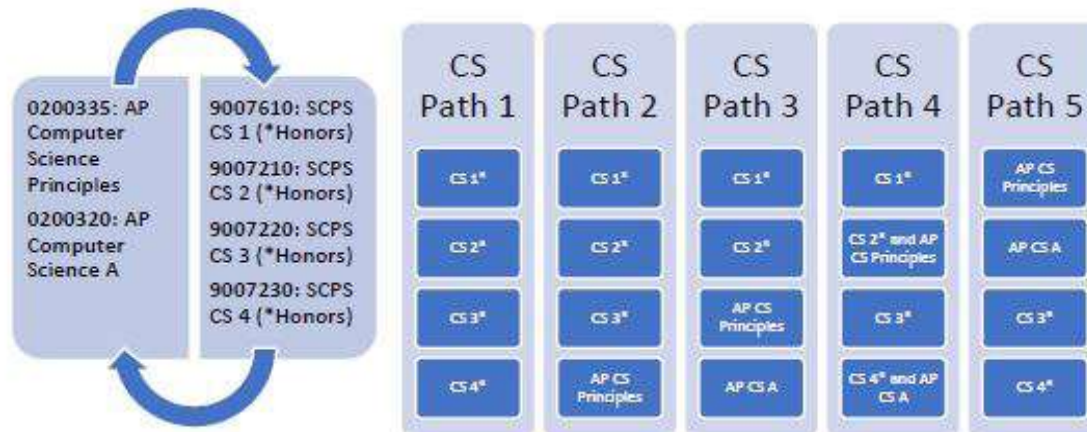
Program Name	Hosting School	Course Codes	Course Description
Cosmetology	Lake Howell	8757210X (.5) 8905120X (Spring .5)	The ideal candidate for the Cosmetology program has a passion for making people feel and look good. Students will practice performing services of the hair, skin, and nails throughout this course. Upon completion of these courses, students will have up to 160 hours towards the state requirement for licensing.
Electrical *This course meets Mondays and Wednesdays 3:30-5:30	Lyman	Yr. 1- 8727210X Yr. 2- 8727220X Yr. 3- 8727230X	This program focuses on the fundamentals of electrical technology utilizing the same equipment, materials, tools, and techniques as industry professionals. Students will learn how to troubleshoot, repair, and replace various types of electrical systems from teachers who are trained experts in the field. For students who are age 16 and older, this course provides pre-apprenticeship training and may lead to summer employment through Academy of Construction Technologies.
Heating, Ventilation, and Air Conditioning (HVAC)	Lyman	Yr. 1- 8713010X Yr. 2- 8713020X Yr. 3- 8713030X	This program focuses on the fundamentals of HVAC technology utilizing the same equipment, materials, tools, and techniques as industry professionals. Students will learn how to troubleshoot, repair, and replace various types of HVAC systems from teachers who are trained experts in the field. For students who are age 16 and older, this course provides pre-apprenticeship training and may lead to summer employment through Academy of Construction Technologies.
Technical Design	Lake Mary	Yr. 1- 8401010X Yr. 2- 8401020X Yr. 3- 8401030X Yr. 4- 8601900X	This program focuses on Engineering, Architecture, 3D Modeling & 3D Printing. Students will learn the basics of Autodesk AutoCAD to complete their projects. Students who choose to dive deeper into 3D Modeling will have the opportunity to print their projects on a Mojo or Dimension 1200 3D printer. Those focused on architecture will work on an in-depth architecture project such as developing a set of plans of their dream house. All students will take the AutoCAD Certification Exam.

## SCPS COMPUTER SCIENCE PATHWAYS

Seminole County believes computer science skills are an integral component in the future of work and life. In addition, there is a high demand for employees with computer science skills and not enough qualified applicants to fill open positions. In order to adequately prepare students for these promising careers, SCPS has developed a comprehensive ePathway that prepares students starting in Kindergarten through twelfth grade, so all students have the opportunity to learn these important *Future Ready* skills.



The SCPS Computer Science Pathways initiative provides unique combinations of AP Computer Science courses and CTE Computer Science courses. Choose from these combinations of courses and pathways:



SCPS Computer Science (\*Honors) prepares students with relevant technical knowledge and skills needed for a wide variety of computer science careers. Students will complete projects that incorporate essential programming techniques, algorithms, logical thinking, app development, and more. Students can also earn industry certifications.

AP Computer Science Principles is an introductory college-level computing course. Students cultivate their understanding of computer science through working with data, collaborating to solve problems, and developing computer programs as they explore concepts like creativity, abstraction, data and information, algorithms, programming, the internet, and the global impact of computing.

AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures. For more information about which computer science pathway is right for you, please talk with your school counselor.

**How to Register:** These courses may be available at your high school in 2021-2022. If you are interested, register for 0200335 or 0200320 or 9007610.

# STANDARD DIPLOMA HIGH SCHOOL GRADUATION OPTIONS

(Students Entering 9<sup>th</sup> Grade in 2014-2015 and After)

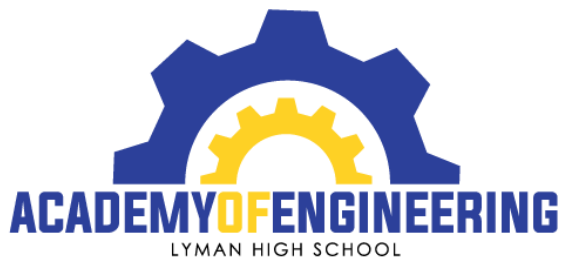
Standard Diploma High School Graduation Options  
(Students Entering 9<sup>th</sup> Grade in 2014-2015 and After)

26 credit standard diploma option available to all students, including students with disabilities	26 credit standard diploma option available only to students with disabilities: <b>No access courses permitted</b>	26 credit standard diploma available only to students with disabilities, who take <b>access courses</b> and the alternate assessment. *
<b>4 Credits English Language Arts (ELA)</b>		
<ul style="list-style-type: none"> <li>• ELA I, II, III, IV</li> <li>• ELA honors, Advanced Placement (AP), Advanced International Certificate of Education (AICE), International Baccalaureate (IB) and dual enrollment courses may satisfy this requirement</li> </ul>	<ul style="list-style-type: none"> <li>• Must earn credits for all of the courses listed in the first column</li> <li>• May substitute a CTE course with content related to English for English IV</li> </ul>	<ul style="list-style-type: none"> <li>• Must earn credits for all of the courses listed in the first column</li> <li>• May substitute access courses for general education courses</li> <li>• May substitute a CTE course with content related to English for English IV</li> </ul>
<b>4 Credits Mathematics</b>		
<ul style="list-style-type: none"> <li>• One of which must be Algebra I 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 I and Geometry)</li> </ul>	<ul style="list-style-type: none"> <li>• Must earn credits for all of the courses listed in the first column</li> <li>• May substitute a CTE course with content related to mathematics for one mathematics credit (except for EOC courses: Algebra I and Geometry)</li> </ul>	<ul style="list-style-type: none"> <li>• Must earn credits for all of the courses listed in the first column</li> <li>• May substitute access courses for general education courses</li> <li>• May substitute a CTE course with content related to mathematics for one mathematics credit (except for EOC courses: Algebra I and Geometry)</li> </ul>
<b>4 Credits Science</b>		
<ul style="list-style-type: none"> <li>• One of which must be Biology I, two of which must be equally rigorous science courses.</li> <li>• Two of the three required credits must have a laboratory component</li> <li>• An industry certification that leads to college credit substitutes for up to one science credit (except for Biology I)</li> <li>• An identified rigorous Computer Science course with a related industry certification substitutes for up to one science credit (except for Biology)</li> </ul>	<ul style="list-style-type: none"> <li>• Must earn credits for all of the courses listed in the first column</li> <li>• May substitute a CTE course with content related to science for one science credit (except for EOC course: Biology I)</li> </ul>	<ul style="list-style-type: none"> <li>• Must earn credits for all of the courses listed in the first column</li> <li>• May substitute access courses for general education courses</li> <li>• May substitute a CTE course with content related to science for one science credit (except for EOC course: Biology I)</li> </ul>
<b>3 Credits Social Studies</b>		
<ul style="list-style-type: none"> <li>• 1 credit World History</li> <li>• 1 credit in U.S. History</li> <li>• .5 credit in U.S. Government</li> <li>• .5 credit in Economics with Financial Literacy</li> </ul>	<ul style="list-style-type: none"> <li>• Must earn credits for all of the courses listed in the first column</li> <li>• May substitute a CTE course with content related to social studies for one social studies course (except for EOC course: U.S. History)</li> </ul>	<ul style="list-style-type: none"> <li>• Must earn credits for all of the courses listed in the first column</li> <li>• May substitute access courses for general education courses</li> <li>• May substitute a CTE course with content related to social studies for one social studies course (except for EOC Course: U.S. History)</li> </ul>
<b>1 Credit Fine and Performing Arts, Speech and Debate, or Practical Arts**</b>		
<b>9 Elective Credits</b>		
<ul style="list-style-type: none"> <li>• Online Course (IEP Team may waive if appropriate)</li> </ul>	<ul style="list-style-type: none"> <li>• Must include .5 credit in an employment based course (OJT is a possibility)</li> <li>• May include ESE courses</li> <li>• Online Course (IEP Team may waive if appropriate)</li> </ul>	<ul style="list-style-type: none"> <li>• May include employment based course/s</li> <li>• Online Course (IEP Team may waive if appropriate)</li> </ul>
<b>1 Credit Physical Education to include the integration of health</b>		
<p style="text-align: center;"><b>Students must earn a 2.0 grade point average on a 4.0 scale and pass statewide assessments (FSA ELA 10<sup>th</sup> grade and Algebra I EOC) unless a waiver of assessment results is granted by the IEP team.</b></p>		

\*Parental consent is required before a student may take access courses.

\*\*Eligible courses and eligible course substitutions are specified in the Florida Course Code Directory.

# ACADEMY OF ENGINEERING - PROJECT LEAD THE WAY



Lyman High School's Academy of Engineering Program prepares students for rigorous college coursework in the field of engineering. Project Lead the Way (PLTW) is an engaging and thought-provoking program where students develop critical thinking skills through hands-on project-based learning, preparing them to take on real-world challenges. Students will have the opportunity to create, design, and build robots and automobiles, applying what they are learning in math and science to the world's grand challenges.

## REQUIRED PATHWAY

### INTRODUCTION TO ENGINEERING DESIGN

8600550/EGN1111C

1 Credit PFA 9

### PRINCIPLES OF ENGINEERING

MTB1329/EGS1006

1 Credit PFA 11

### ENGINEERING DESIGN & DEVELOPMENT

EGS2930/EGS2931

1 Credit PFA 12



## ELECTIVE YEAR COURSES

### AEROSPACE ENGINEERING

8600620

1 Credit PFA 10

AE explores the evolution of flight, navigation and control flight fundamentals, aerospace materials, propulsion, space travel and orbital mechanics. Students analyze, design, and build aerospace systems. They apply knowledge gained throughout the course in a final presentation about the future of the industry and their professional goals.

### ENVIRONMENTAL SUSTAINABILITY

8600630

1 Credit PFA 10

In this course students explore the diverse fields involved in environmental sustainability. Hands-on projects engage students in engineering design problems related to biomechanics, including student investigation and solution design to real-world challenges related to clean drinking water, food supply, genetic engineering, and renewable energy.

### CIVIL ENGINEERING & ARCHITECTURE

8600590

1 Credit PFA 10

Students learn about various aspects of civil engineering and architecture and apply their knowledge to the design and development of residential and commercial properties and structures. In addition, student use 3D design software to design and document solutions for major course projects. Students communicate and present solutions to their peers and members of a professional community of engineers and architects.

### COMPUTER SCIENCE HONORS

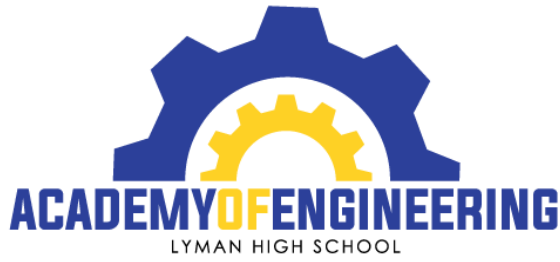
9007610

1 Credit 9-10

Corequisite: Algebra 2 Honors. In this course students will explore the area of computer science. Students will be able to design and implement coding in order to solve real-world problems. Students who take this course are able to participate in the new computer science pathway which includes both AP courses and dual enrollment.



# ACADEMY OF ENGINEERING - PROJECT LEAD THE WAY



## OPTIONAL COMPUTER SCIENCE PATHWAY

This program offers students an opportunity to gain the technical knowledge and skills in the area of computer science. The pathway is unique in its focus on fostering students to be creative and encouraging students to apply creative processes when developing computational artifacts. Students design and implement innovative solutions using an iterative process similar to what artists, writers, computer scientists, and engineers use to bring ideas to life.



### COMPUTER SCIENCE HONORS

9007610

1 Credit 9-10

### AP COMPUTER SCIENCE PRINCIPLES

0200335

1 Credit 10-12

### AP COMPUTER SCIENCE A

0200320

1 Credit 11-12



## OPTIONAL ROBOTICS PATHWAY

This program allows students to learn how to design and build robotic systems while enhancing their knowledge of automation, including artificial intelligence, electronics, physics, and principles of engineering. Students in this program can receive industry certifications as well as participate in our FIRST robotics competition.

### FOUNDATIONS OF ROBOTICS

9410110

1 Credit PFA 9

### ROBOTIC DESIGN

9410120

1 Credit PFA 10

### ROBOTIC SYSTEMS

9410130

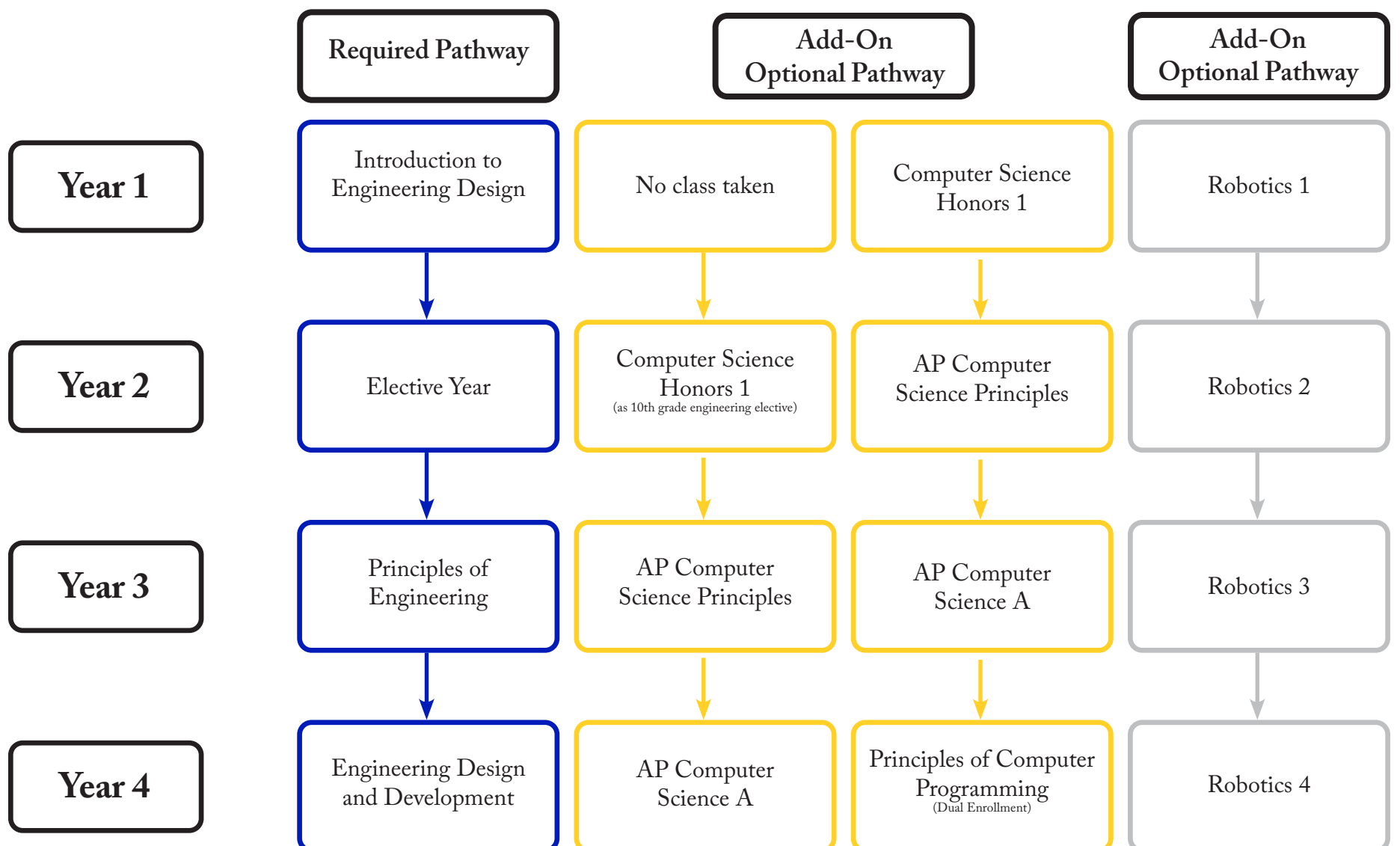
1 Credit PFA 11

### ROBOTIC APPLICATIONS

94101401

1 Credit PFA 12

## Engineering Pathways

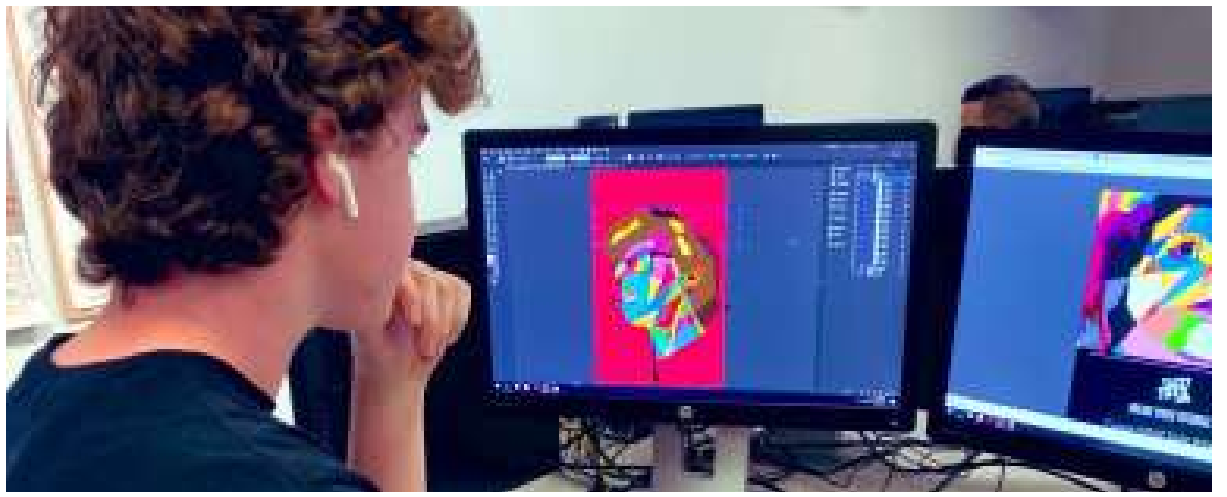




**OVER 1,200**

Lyman students enrolled in Career and Technical Education courses in 2019-2020. Over 400 students chose more than one CTE course.

Participating in a CTE Academy is an exciting opportunity for students to choose electives that INSPIRE THEM, build teamwork skills, AND SPARK A CURIOSITY in college and career interests.



**ACADEMY OF TELEVISION TECHNOLOGY**

This Academy introduces students to television production. The use of lights, lighting, cameras, microphones, camera mounts and editing is studied. Various Adobe products are introduced in each year. Students within the Academy of Television Technology will have the opportunity to earn college credits through Seminole State College Career Pathways as well as earn Adobe industry certification. Courses must be taken in sequential order.

**TELEVISION PRODUCTION 1**

8201510

1 Credit PFA 9-10

**TELEVISION PRODUCTION 2**

8201520

1 Credit PFA 10-12

**TELEVISION PRODUCTION HONORS 3**

8201530

1 Credit PFA 11-12

**TELEVISION PRODUCTION HONORS 4**

8772140

1 Credit PFA 12



**ACADEMY OF WEB & DIGITAL DESIGN TECHNOLOGY**

Web Design students learn about HTML, CSS, graphics, advanced web languages, and making and publishing websites. Digital Design students learn about making newsletters, fliers, posters, logos, photography, printing, and more. Students will have the opportunity to earn multiple industry certifications in Microsoft Office Specialist (MOS) as well as products within the Adobe Creative Cloud Suite. Students who pass MOS certifications will earn college credit college hours. Even more college credit opportunities are available through the Web and Digital Paths. Bring your designs to life! Courses must be taken in sequential order.

**WEB DESIGN PATH**

**DIGITAL INFORMATION TECHNOLOGY**

8207310

1 Credit PFA 9-12

**FOUNDATIONS OF WEB DESIGN HONORS**

9001110

1 Credit PFA 9-12

**USER INTERFACE DESIGN HONORS**

9001120

1 Credit PFA 10-12

**WEB SCRIPTING FUNDAMENTALS HONORS**

9001130

1 Credit PFA 10-12

**MEDIA INTEGRATION ESSENTIALS HONORS**

9001140

1 Credit PFA 10-12

**DIGITAL DESIGN PATH**

**DIGITAL INFORMATION TECHNOLOGY**

8207310

1 Credit PFA 9-12

**DIGITAL DESIGN 1 HONORS**

8209510

1 Credit PFA 9-12

**DIGITAL DESIGN 2 HONORS**

8209520

1 Credit PFA 10-12

**DIGITAL DESIGN 3 HONORS**

8209530

1 Credit PFA 10-12

**DIGITAL DESIGN 4 HONORS**

8209540

1 Credit PFA 10-12





# CAREER AND TECHNICAL EDUCATION

## ACADEMY OF MARKETING CAREERS

The three marketing education paths listed below provide a foundation for careers in marketing, finance, hospitality, and management. Students participate in leadership development, community service, career development, scholarships, employment opportunities, college recruitment, and competition. Industry certification is offered within each program. Students in the marketing academies are members of DECA, which is the student organization for marketing. Courses must be taken in sequential order.

### MARKETING PATH

#### MARKETING ESSENTIALS

8827110

1 Credit PFA 9-12

#### MARKETING APPLICATIONS

8827120

1 Credit PFA 10-12

#### MARKETING MANAGEMENT

8827130

1 Credit PFA 11-12

### FASHION MARKETING PATH

#### FASHION MARKETING ESSENTIALS

8806010

1 Credit PFA 9-12

#### FASHION MARKETING APPLICATIONS

8806020

1 Credit PFA 10-12

#### FASHION MARKETING MANAGEMENT HONORS

8806030

1 Credit PFA 11-12

### SPORTS MARKETING PATH

#### SPORTS & ENTERTAINMENT MARKETING ESSENTIALS

8827410

1 Credit PFA 9-12

#### SPORTS & ENTERTAINMENT MARKETING APPLICATIONS

8827420

1 Credit PFA 10-12

#### SPORTS & ENTERTAINMENT MARKETING MANAGEMENT HONORS

8827430

1 Credit 11-12

### DIRECTED STUDY

#### MARKETING DIRECTED STUDY

8800100

1 Credit 11-12

Prerequisite: Marketing Program Completion



## ACADEMY OF EARLY CHILDHOOD EDUCATION

Students within the Early Childhood Program have the opportunity to become CPR certified and earn industry certification through the Department of Children and Families (DCF), ServSafe®, as well as the Child Development Associate (CDA) Credential™. Students can also earn up to 6 college credits through Career Pathways at Seminole State College. Courses must be taken in sequential order.

### EARLY CHILDHOOD EDUCATION 1

1 Credit 8405110 9-12

### EARLY CHILDHOOD EDUCATION 2

1 Credit 8405120 10-12

### EARLY CHILDHOOD EDUCATION 3 HONORS

1 Credit 8405130 PFA 10-12

### EARLY CHILDHOOD EDUCATION 4 HONORS

1 Credit 8405140 10-12

## ACADEMY OF CULINARY ARTS

The Culinary Arts program is designed for students who want to explore all aspects of the culinary field. This program is designed for the student who enjoys hands-on experiences with food and wants to learn about the food service industry. Students are exposed to commercial kitchen equipment and procedures. This program includes industry certification. Courses must be taken in sequential order.

### CULINARY ARTS 1

1 Credit 8800510 9

### CULINARY ARTS 2

1 Credit 8800520 PFA 10

### CULINARY ARTS 3 HONORS

1 Credit 8800530 11

### CULINARY ARTS 4 HONORS

1 Credit 8800540 12

## ACADEMY OF AUTOMOTIVE MAINTENANCE & LIGHT REPAIR

This program offers a sequence of courses that provide coherent and rigorous content aligned with challenging academic standards and relevant technical skills needed to prepare for education/careers in the Transportation, Distribution, and Logistics career cluster. Students learn workplace success skills, safety, shop operations. As they progress they will learn engine fundamentals, brakes, computer and electrical diagnosis. They will also learn brakes, steering & suspension systems, auto/manual drive and engine performance. Students could earn a range of industry certifications through Automotive Service Excellence (ASE) as well the Florida Automotive Dealers Association (FADA). Students may also earn up to three college credits through SSC Career Pathways. Courses must be taken in sequential order.

### AUTOMOTIVE MAINTENANCE & LIGHT REPAIR 1 HONORS

1 Credit 9504110 9-10

### AUTOMOTIVE MAINTENANCE & LIGHT REPAIR 2 HONORS

1 Credit 9504120 10-11

### AUTOMOTIVE MAINTENANCE & LIGHT REPAIR 3/5 HONORS

2 Credits 9504130 & 9504150 11-12

### AUTOMOTIVE MAINTENANCE & LIGHT REPAIR 4/6 HONORS

2 Credits 9504140 & 9504160 12





# PROGRAM OF EMPHASIS

## ACADEMY OF BUILDING AND DESIGN

Construction workforce demands in Central Florida continue to rise and career opportunities abound! The Academy of Building and Design gives students the opportunity to explore careers in General Building Trades, Electrical, HVAC/R, and Welding. Students will follow a progression of courses aligned with a chosen trade. In addition to industry specific course content, students will have the opportunity to take and earn industry certifications that will help them obtain post-secondary employment in the construction industry. All Academy of Building and Design Careers programs are part of the Academy of Construction Technologies (ACT) organization, a registered pre-apprenticeship program. The ACT program offers students the opportunity to begin a career in high school, integrating academics and paid work experience.

### HVAC REFRIGERATION PATH

This program focuses on the fundamentals of Heating Ventilation, Air Conditioning, and Refrigeration (HVAC/R) utilizing the same equipment, materials, tools and techniques as industry professionals. Students will learn how to troubleshoot, repair, and replace various types of HVAC systems from teachers who are trained experts in the field. For students who are age 16 and older, this course provides pre-apprenticeship training and may lead to summer employment through Academy of Construction Technologies (ACT). The progression of courses will contain HVAC level 4 in the 2022-2023 school year.

Courses must be taken in sequential order.

#### BUILDING TRADES AND CONSTRUCTION 1

8722010

1 Credit 9-12

#### HVAC/REFRIGERATION 1

8713010

1 Credit 10-12

#### HVAC/REFRIGERATION 2

8713020

1 Credit 10-12

#### HVAC/REFRIGERATION 3

8713030

1 Credit 10-12



### WELDING PATH

The Welding Fundamentals program prepares students for entry into the welding industry. Students explore career opportunities and requirements of a professional welder. Content of emphasizes beginning skills and progressively introduces advanced skills key to the success of working in the welding industry. Students study workplace safety and organization, basic manufacturing processes, metals identification, basic interpretation of welding symbols, and oxyfuel gas cutting practices. Students demonstrate learned skills by creating and producing a finished product. The progression of courses will contain Welding level 2 in the 2022-2023 school year. Courses must be taken in sequential order.

#### BUILDING TRADES AND CONSTRUCTION 1

8722010

1 Credit 9-12

#### WELDING FUNDAMENTALS 1 HONORS

9204410

1 Credit 10-12

### BUILDING TRADES & CONSTRUCTION PATH

As this industry continues to grow and drive the Florida economy, the demand for qualified professionals in the field of residential and commercial structures is increasing. The program focuses on foundational skills that can be used in trades like HVAC, and electrical. Students can take the knowledge learned in these courses to the next level by pursuing industry certifications, workplace learning experiences, or apprenticeship. Students within the Academy of Building & Design have the opportunity to earn a range of industry certifications. Courses must be taken in sequential order.

#### BUILDING TRADES AND CONSTRUCTION 1

8722010

1 Credit 9-12

#### BUILDING TRADES AND CONSTRUCTION 2

8722020

1 Credit 10-12

#### BUILDING TRADES AND CONSTRUCTION 3 HONORS

8722030

1 Credit 10-12

#### BUILDING TRADES AND CONSTRUCTION 4 HONORS

8722040

1 Credit 10-12

### ELECTRICAL PATH

This program focuses on the fundamentals of electricity utilizing the same equipment, materials, tools and techniques as industry professionals. Students will learn how to troubleshoot, repair, and replace various types of electrical systems from teachers who are trained experts in the field. For students who are age 16 and older, this course provides pre-apprenticeship training and may lead to summer employment through Academy of Construction Technologies (ACT). The progression of courses will contain Electrical level 4 in the 2022-2023 school year. Courses must be taken in sequential order.

#### BUILDING TRADES AND CONSTRUCTION 1

8722010

1 Credit 9-12

#### ELECTRICAL 1

8727210

1 Credit 10-12

#### ELECTRICAL 2

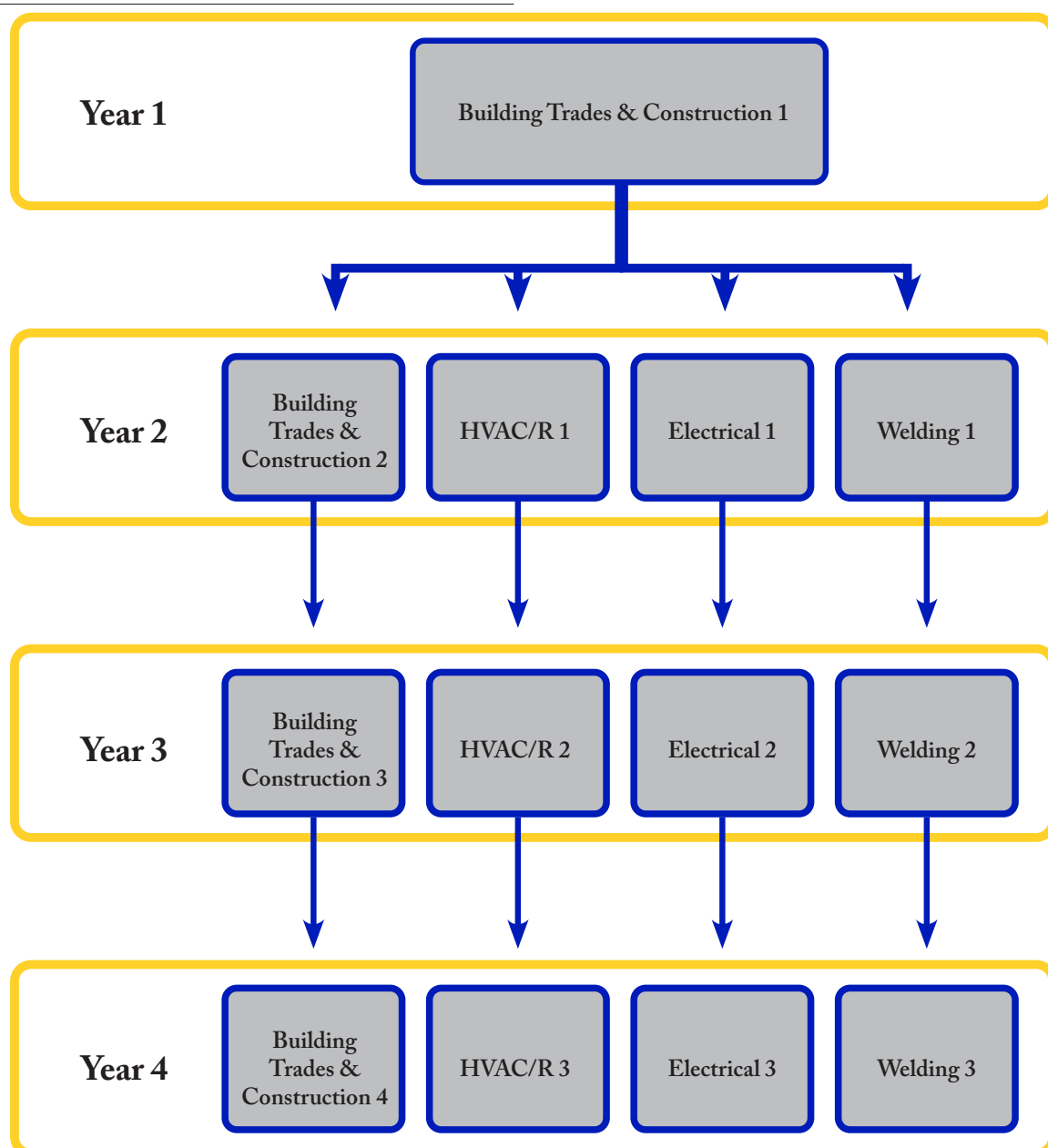
8727220

1 Credit 10-12

#### ELECTRICAL 3 HONORS

8727230

1 Credit 10-12



# COURSE SEQUENCES

## ENGLISH LANGUAGE

### Standard



### Honors



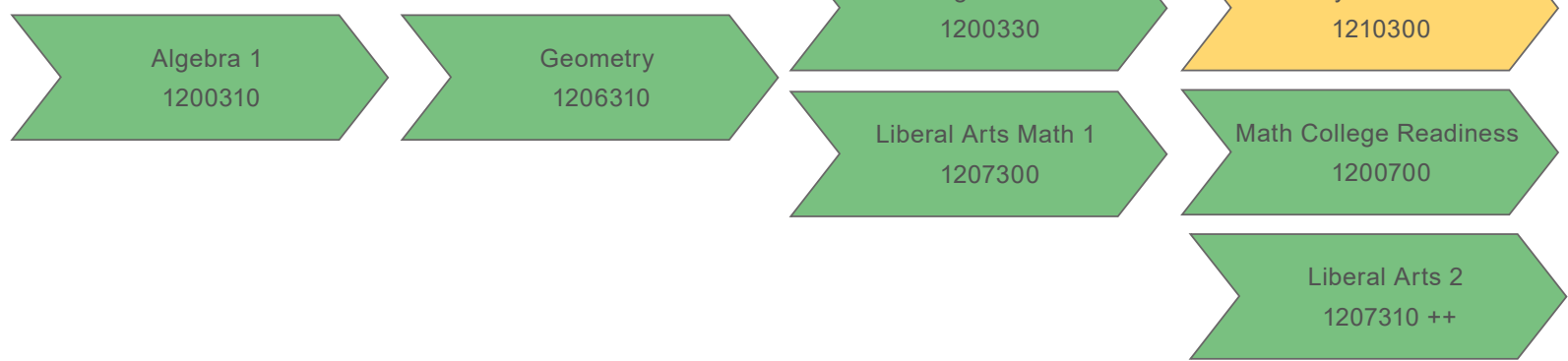
### Advanced Placement



FOUR YEARS OF ENGLISH LANGUAGE ARTS IS A GRADUATION REQUIREMENT.

## MATHEMATICS

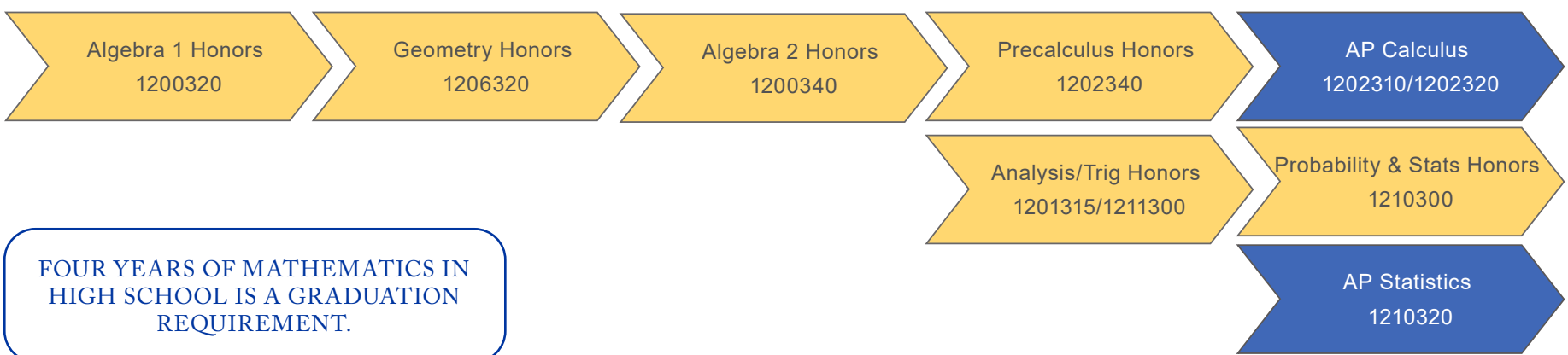
### Standard



++Not an approved course for NCAA Requirements

### Honors / Advanced Placement

Students comfortable with Algebra concepts are encouraged to take a Computer Science course



FOUR YEARS OF MATHEMATICS IN HIGH SCHOOL IS A GRADUATION REQUIREMENT.



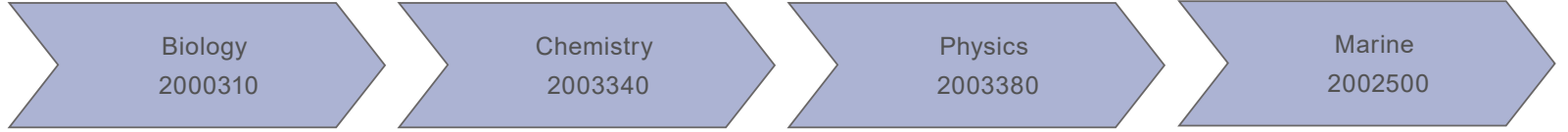
# COURSE SEQUENCES

## SCIENCE

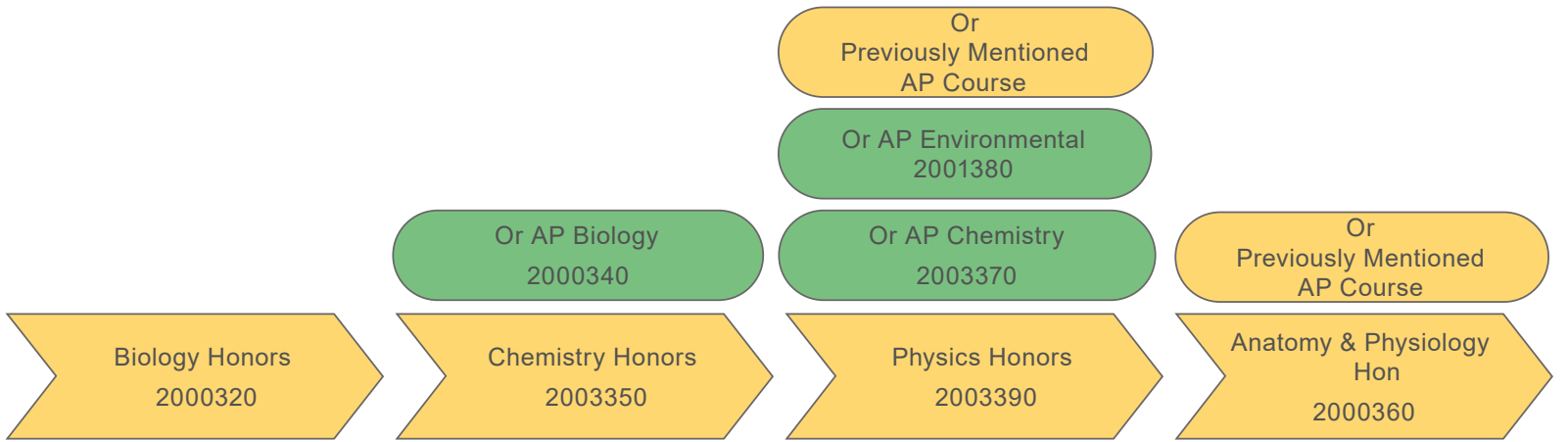
### Standard



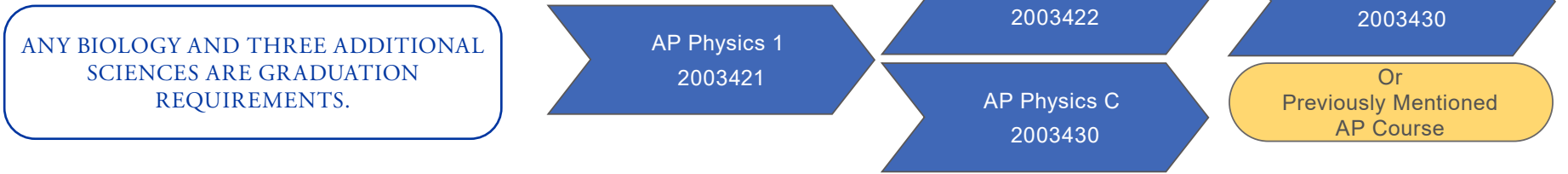
### Alternative Standard



### Honors

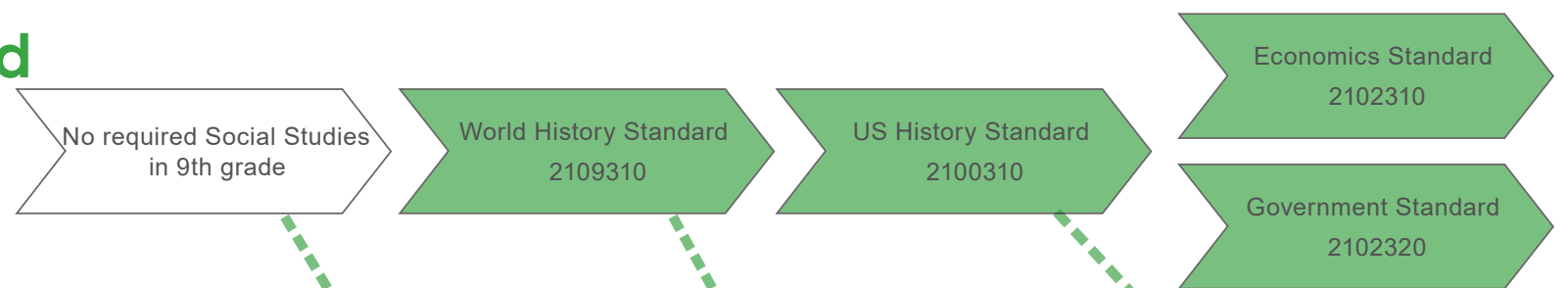


### Advanced Placement

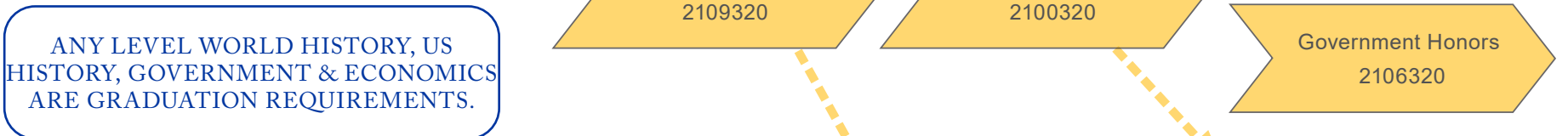


## SOCIAL SCIENCE

### Standard



### Honors



### Advanced Placement



# ENGLISH LANGUAGE ARTS

## ENGLISH 1

1001310

### ENGLISH 1 THROUGH ESOL

1002300

1 Credit

9

This course provides an integrated educational experience in language arts strands of reading, writing, listening, viewing, speaking, language and literature.

### ENGLISH 1 HONORS

1001320

1 Credit

9

This course provides continued instruction in the fundamentals of grammar, writing, vocabulary, and literature including nonfiction, short stories, poetry, drama, and novels. Applied technical strategies are used to enhance oral and written communication and critical thinking skills.

## ENGLISH 2

1001340

### ENGLISH 2 THROUGH ESOL

1002310

1 Credit

10

This course continues the development and application of critical thinking skills and relevant language skills, both written and verbal, for college and the workplace. Students integrate expository and persuasive writing, literary analysis, and world literature with applied/technical communication strategies.

### ENGLISH 2 HONORS

1001350

1 Credit

10

This course continues the development and application of critical thinking skills and relevant language skills, both written and verbal, for college and career readiness. Students integrate expository and persuasive writing, literary analysis, and world literature with applied/technical communication strategies.

## ENGLISH 3

1001370

### ENGLISH 3 THROUGH ESOL

1002320

1 Credit

11

This course extends grammar, composition, vocabulary skills and continues instruction in writing with an emphasis on multi-paragraph essays and a documented paper. The focus is on American Literature with representative works reflecting the ethnic and cultural diversity of the American experience. Applied technical strategies are used to enhance oral and written communication and higher level thinking skills.

### ENGLISH 3 HONORS

1001380

1 Credit

11

This course extends grammar, composition, and vocabulary skills and continues instruction in writing with an emphasis on multi-paragraph essays and a documented paper. The instructional focus is on American Literature with representative works reflecting the ethnic and cultural diversity of the American experience. Applied technical strategies are used to enhance oral and written communication and higher level thinking skills.

## AP ENGLISH LANGUAGE

1001420

1 Credit

11-12

Prerequisite: English 2 and at least one year of Honors English recommended. The purpose of this course is to discover the elements that define an effective argument and composition through the critical analysis and interpretation of multiple texts. This course provides an understanding of the interactions among a writer's purpose, audience, subject, and genre and how each of these contributes to effective writing which will enhance critical thinking and analytical writing. Students will enhance their writing skills and understand each stage of the writing process through expository, analytical, and argumentative compositions. College credit may be awarded by participating colleges and universities based on a score of 3 or above on the Advanced Placement exam. This course is designed for the highly motivated college-bound student who wishes to pursue college level work while still in high school and meets the English course requirement.

### ENGLISH 4 COLLEGE PREP

1001405

### ENGLISH 4 THROUGH ESOL

1002520

1 Credit

12

This course incorporates reading and writing development through a variety of informative texts using grade-level writing craft and in-depth analysis of informational selections of advanced text to develop critical reading and writing skills necessary for success in college courses and to prepare for career readiness. The focus is on world literature from a variety of periods with an emphasis on British authors.

### ENGLISH 4 HONORS

1001410

1 Credit

12

This course provides a focused writing process to compose multi-paragraph expository, narrative, descriptive and persuasive essays, while applying the principles of Standard English. Students read selections of world literature from a variety of periods with an emphasis on British authors. Students will retrieve and interpret information from various sources to create written and oral products.

### AP ENGLISH LITERATURE & COMPOSITION

1001430

1 Credit

12

Prerequisite: Successful completion of the AP English Language is recommended. The purpose of this course is to analyze and interpret literature through a more specific close reading practice and critical analysis with a focus on various genres and periods of literature. Explore literary elements such as structure, style and themes, as well as the use of figurative language, imagery, symbolism and tone. Writing skills will be further developed to express ideas and analyze in expository, analytical, and argumentative essays. College credit may be awarded by participating colleges and universities based on a score of 3 or above on the Advanced Placement exam. This course is designed for the highly motivated college-bound student who wishes to pursue college level work while still in high school and meets the English course requirement.

## AP SEMINAR

1700350

1 Credit

11-12

AP Seminar, the first course in the AP Capstone experience, allows students to investigate real-world issues from multiple perspectives and analyze information from various sources to develop credible and valid evidence-based arguments. This foundational course focuses on the importance of engaging students in cross-curricular conversations and the efficient use of evidence-based reasoning. Using an inquiry framework students practice reading and analyzing articles; research studies, a foundational literary and philosophical texts; listen to and analyze speeches, broadcasts and personal accounts; and experience artistic works and performances. Students learn to synthesize information and visual presentations, both individually and as part of a combined team.

## AP RESEARCH

1700355

1 Credit

11-12

Prerequisite: AP Seminar. This is the second course in the AP Capstone experience, which allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a year-long investigation to address a research question. Through this inquiry, they further the skills acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of approximately 4,000-5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense. Students are highly encouraged to register concurrently for a statistics course, if they have not already completed one.



# MATHEMATICS

## ALGEBRA 1

1200310

## ALGEBRA 1 HONORS

1200320

1 Credit 9-10

This course includes a rigorous, in-depth study of all of the topics included in Algebra 1 as well as absolute value equations and inequalities, operations with rational expressions, solving rational equations and characteristics of quadratic graphs. **Algebra 1 is required for graduation.**

## GEOMETRY

1206310

## GEOMETRY HONORS

1206320

1 Credit 9-11

Prerequisite: Algebra 1. This course includes a rigorous, in-depth study of all of the Geometry topics as well as, but not limited to, truth tables, vectors, Fibonacci sequence, coordinate geometry proofs, involving circles and problems involving cross sections of solids. **Geometry is required for graduation.**

## LIBERAL ARTS MATH 1

1207300

1 Credit 9-11

Prerequisite: Algebra 1. Students will be administratively placed. Topics include but are not limited to one and two variable statistics, linear functions and transformations of linear, exponential and quadratic functions. Additionally, students will work on test taking skills and problem solving techniques.

Special Note: This course does not satisfy the three mathematics credits required for admission to Florida state universities, some Bright Futures scholarship programs, or NCAA eligibility. This course does count as a math credit towards high school graduation.

## LIBERAL ARTS MATH 2

1207310

1 Credit 9-11

Prerequisite: Geometry. Liberal Arts Mathematics is a course designed to strengthen the mathematical skills required for college entrance exams and for further study of advanced mathematics. Topics shall include, but not be limited to, operations with real numbers, ratio and proportion, percents, the algebra of sets, integers, polynomials, factoring, algebraic expressions, equations and inequalities, quadratic equations, and the geometry of angles, lines, polygons, similarity and congruence.

Special Note: This course does not satisfy the three mathematics credits required for admission to Florida state universities, some Bright Futures scholarship programs, or NCAA eligibility. This course does count as a math credit towards high school graduation.

## ALGEBRA 2

1200330

## ALGEBRA 2 HONORS

1200340

1 Credit 9-12

Prerequisite: Algebra 1 and Geometry. This course includes a rigorous, in-depth study of all the Algebra 2 topics except rational expressions and equations, absolute value equations and inequalities, all of which were previously studied in Algebra 1 Honors. Additional topics studied in this course include, but are not limited to, piecewise functions, binomial expansion theorem, discontinuities, asymptotic behavior in rational graphs, non-linear systems of equations, conic sections and partial sums of arithmetic and geometric series.



## MATHEMATICS FOR COLLEGE READINESS

1200700

1 Credit 12

This course is designed to meet the needs of seniors who plan to attend college. Projects designed to help students research and apply to colleges, make a preliminary two-year course plan, and schedule first semester college classes will be incorporated throughout the year. Topics include, but not limited to, linear equations, quadratic equations, radical equations, polynomials, exponential equations, compound and simple interest, matrices, properties of exponents, solving systems of equations, and descriptive statistics.

## ANALYSIS OF FUNCTIONS HONORS

1201315

0.5 Credit 10-12

Prerequisite: Algebra 2. This course is designed to prepare students for success in Precalculus. Topics include graphing, transformations of functions, polynomials, rational expressions, exponential and logarithmic functions, remainder and root theories, and removable and non-removable discontinuities. **Must take with Trigonometry Honors for full year credit.**

## TRIGONOMETRY HONORS

1211300

0.5 Credit 10-12

Prerequisite: Algebra 2. This course is designed to prepare students to be successful in Precalculus. Topics include circular functions, trigonometric identities, graphs of trig functions, particular and general solutions of trig equations and solutions of right and oblique triangles, prove Pythagorean identities; using trig in complex plane; using trigonometry in vectors. **Must take with Analysis of Function Honors for full year credit.**

## PRECALCULUS HONORS

1202340

1 Credit 10-12

Prerequisite: Algebra 2 Honors. This course is designed to provide a foundation for the study of Calculus. Topics include, but are not limited to, an analysis of polynomial and trigonometric functions, Pythagorean and trigonometric identities, law of sines, law of cosines, sum and difference formulas, half angle and double angle formulas, conic sections, vectors, parametric equations, polar coordinates, finite and infinite sequences and series, and limits and continuity.

## AP CALCULUS AB

1202310

## AP CALCULUS BC

1202320

1 Credit 11-12

Prerequisite: Precalculus. These courses are designed for the highly motivated college-bound student who wishes to pursue college level work while still in high school. These courses are intended for students who have a thorough knowledge of college preparatory mathematics and elementary (algebraic, trigonometric, exponential, and logarithmic) functions. AB topics include functions and graphs, limits and continuity, derivatives and integrals and their applications. BC topics from the AB course are presented with increased rigor and additional topics in sequences and series are included. These courses are taught utilizing graphing calculators. Based on the result of the AP exam, college credit may be awarded by participating colleges and universities.

## PROBABILITY & STATISTICS HONORS

1210300

1 Credit 12

Prerequisite: Algebra 2. This course is designed to give students the tools needed to enable them to answer reasonable and theoretical practices real-life applications. Topics include, but are not limited to, probability distributions, normal distributions, Central Limited Theorem, sampling techniques, measures of central tendency and variability, linear regression, confidence intervals, and hypothesis tests of means and proportions.

## AP STATISTICS

1210320

1 Credit 11-12

Prerequisite: Algebra 2. This course is designed for the highly motivated college-bound student. The purpose of the AP course in Statistics is to introduce students to the major concepts and tools for collection, analyzing, and drawing conclusions from data. Four skill categories spiral throughout the course: Selecting statistical methods, data analysis, using probability and simulation, and statistical argumentation. This course is taught utilizing the TI-84 series of graphing calculators in an active learning atmosphere using online resources and in-class activities.

# SCIENCE

## ENVIRONMENTAL SCIENCE

2001340

1 Credit 9

At the conclusion of this course the student will have a thorough understanding of the ways that humans interact with the natural environment. The content includes biotic and abiotic environmental factors, environmental planning and waste management, characteristics of populations, thermodynamics, and use of conservation practices. Laboratory investigations of selected topics in the content, which also include scientific method, measurement, laboratory apparatus, and safety procedures are an integral part of this course.

## BIOLOGY

2000310

## BIOLOGY HONORS

2000320

1 Credit 9-10

In this course students will explore the relationship between organisms and their environment and between individual cells and biological systems. The processes of life will be approached from the view points of cellular structure and function, genetics and molecular biology, classifications of organisms, physiology, biochemistry, and biological changes through time. **Biology credit is required for graduation.**

## AP BIOLOGY

2000340

1 Credit 10-12

Prerequisite: Biology Honors. AP Biology is an introductory college-level biology course. Students deepen their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy transfer, cellular communication, genetics, and ecology. The course is rigorous and requires study time outside of dedicated class time.

## MARINE SCIENCE

2002500

1 Credit 11-12

Prerequisite: Biology. The purpose of this course is to provide students with an understanding of the coastlines and tidal zones, tropical ocean and reef inhabitants, and deep marine organisms. Economic implications of marine resources and the impact of pollution of marine environment will be included laboratory activities and safe laboratory techniques are an essential component of this course.

## ANATOMY & PHYSIOLOGY HONORS

2000360

1 Credit 11-12

Prerequisite: Biology. This course provides advanced science students with a comprehensive background in human anatomy and physiology. Students will be required to understand terminology, identify structures, and understand body functions. The course will include a study of the organ systems of the body, utilizing anatomical terminology to describe or explain structural composition and physiological processes. Vertebrate dissection is a major part of this course. Laboratory activities and safe laboratory techniques are an essential component of the course.

## CHEMISTRY

2003340

## CHEMISTRY HONORS

2003350

1 Credit 10-11

Prerequisite: Biology & Algebra 1. In this course, students will be study the composition, properties, and changes associated with matter. The content shall include, but not limited to; measurement, classification and structure of matter, atomic theory, moles, periodicity, chemical bonding, formula writing, nomenclature, chemical equations, stoichiometry, kinetic theory, gas laws, acids and bases, energy relationships, solids, liquids, and solutions. Laboratory activities and safe laboratory techniques are an essential component of the course.

## PHYSICAL SCIENCE

2003310

1 Credit 10-12

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

## AP CHEMISTRY

2003370

1 Credit 11-12

Prerequisites: Biology, Chemistry Honors, Algebra 2 Honors. With the ever-increasing need for innovators, problem finders, and designers of materials, pharmaceuticals, and even new fuels, comes the need for individuals skilled in the science practices and knowledgeable about chemistry. The AP Chemistry course provides students with training for such knowledge and skills through guided inquiry labs, a focused curriculum on content relevant to today's problems, and an exam that assesses students' mental models of the particulate nature of matter instead of memorization of rules to understand chemistry.

## PHYSICS 1

2003380

## PHYSICS 1 HONORS

2003390

1 Credit 11-12

Prerequisites: Biology, Chemistry, Algebra 1 (Physics 1) or Algebra 2 Honors (Physics 1 Honors) This course will provide students with an introductory study of the theories and laws governing mechanics, conservation of energy and electricity. Laboratory activities and safe laboratory techniques are an essential component of the course and offer students an opportunity to become familiar with scientific instruments and method.

## AP PHYSICS 1

2003421

1 Credit 11-12

Prerequisites: Biology, Algebra 2 Honors. AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. Lab Requirement: This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry based investigations that provide students with opportunities to apply the science practices.

## AP PHYSICS 2

2003422

1 Credit 11-12

Prerequisite: Precalculus or concurrently enrolled. AP Physics 2 is an algebra-based, introductory college-level physics course that explores 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. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. Lab Requirement: This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.

## AP PHYSICS C

2003430

1 Credit 11-12

Prerequisites: AP Physics 1 and AP Calculus concurrently. This is a calculus-based college level course in physics. It is divided into two-sections: classical mechanics and electricity/magnetism. The extremely rapid pace and challenging nature of this course requires the student to devote significant quantities of time and effort outside of regular class time. This is the preferred AP Physics course for students who intend to major in physics or engineering in college.

## AP ENVIRONMENTAL SCIENCE

2001380

1 Credit 10-12

Prerequisite: Biology. This is a college level course which provides the student with the scientific principles, concepts, and methods required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.

## EARTH SPACE SCIENCE

2001320

1 Credit 12

Prerequisite: Biology. The purpose of this course is to develop and apply concepts basic to the Earth, its materials, processes, history, and environment in space. The content includes the following: the nature of science, the universe and the solar system, the developmental cycle of stars, the earth-moon system, space exploration, formation of igneous, sedimentary, and metamorphic rocks and identification and classification of rocks and minerals, geological divisions of the earth, formation of land forms and basic mountain types, fundamentals of plate tectonics and other related topics.

# SOCIAL SCIENCE

## AP HUMAN GEOGRAPHY

2103400

1 Credit

9-12

This is an academic elective course. 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 learn to 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.

## WORLD HISTORY

2109310

## WORLD HISTORY HONORS

2109320

1 Credit

10

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

## AP WORLD HISTORY

2109420

1 Credit

10-12

The purpose of this course is to investigate significant events, individuals, developments and processes in six historical periods from approximately 8,000 B.C. to the present. Students develop and use the same skills, practices and methods employed by historians; analyzing primary and secondary sources, developing historical arguments, making historical comparisons, and utilizing reasoning about contextualization, causation, and continuity and change over time. Based on the results of the AP exam, college credit may be awarded by participating colleges.

## U.S. HISTORY

2100310

## U.S. HISTORY HONORS

2100320

1 Credit

11

Prerequisite: World History. The primary learning focus of this U.S. History will be on the United States and its people from 1865 (the end of the Civil War) to the present day. Students will examine the historical, geographic, political, economic, and sociological events which influenced the development of the nation in preparation for Florida's required end-of-course assessment. The honors course offers scaffolded learning opportunities for students to develop the critical skills of analysis, synthesis, and evaluation in a more rigorous and reflective academic setting.

## AP U.S. HISTORY

2100330

1 Credit

11

Prerequisite: World History Honors OR AP World History. In AP U.S. History, students will investigate significant events, individuals and processes which shaped the development of our nation from 1491 to the present day. Over the course of the year, students will practice the critical-thinking skills used by professional historians: primary source analysis, historical reasoning and evidence-based argumentation. Designed to introduce motivated students to the scope and demands of college-level work, AP U.S. History offers credit for up to two semesters of a traditional survey course based on student performance on the AP exam. AP U.S. History students should have sound academic habits, reading comprehension skills and the ability to write in full, grammatically correct sentences.



## AMERICAN GOVERNMENT

2106310

## AMERICAN GOVERNMENT HONORS

2106320

0.5 Credit

12

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

## AP AMERICAN GOVERNMENT

2106420

0.5 Credit

12

Prerequisites: U.S. History. This course provides students the opportunity to develop the analytical skills and factual knowledge necessary to deal with the problems, content and materials of American government. Emphasis is placed on content and interpretation of the Constitution, Federalism, Congress, Presidency, political traditions, and responsibilities of citizens. Based on results of the AP exam, college credit may be awarded by participating colleges.

## ECONOMICS

2102310

## ECONOMICS HONORS

2102320

0.5 Credit

12

Prerequisite: U.S. History. This course is a study of the concepts and processes of the national and international economic systems. Content should include, but not limited to, currency, banking, and monetary policy, the fundamental concepts relevant to the major economic systems, the global market and economy, major economy theorists, the role of government and fiscal policies, and the business cycle. This course will also consist of consumer and personal finance, budgeting, credit reports, personal credit, checking and savings accounts, consumerism, interest, higher education financing, and employment contracts and tax forms. The honors section will cover all of the above. In addition, Honors/Advanced courses offer scaffolding opportunities for students to develop critical skills of analysis, synthesis, and evaluation in a more rigorous and reflective academic setting.

## AP MACROECONOMICS

2102370

0.5 Credit

12

Prerequisites: U.S. History, Algebra 2 Honors. AP Macroeconomics is a course that develops your understanding of our economic systems in our 21st century world. Throughout the course students will be exposed to concepts that are part of our everyday life, enriching the experience for students so they can utilize the information learned. The course is designed to help students understand consumer principles, purchasing practices, monetary and fiscal policies. As an advanced placement course, the content will be enhanced to prepare for the AP Exam which can earn college credit.

## AP PSYCHOLOGY

2107350

1 Credit

11-12

This is an academic elective course. This course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and animals. Students will study the psychological facts, principles, and phenomena associated with each of the major sub fields within psychology. Students will also learn about the methods psychologists use in their science and practice. Based on results of the AP exam, college credit may be awarded by participating colleges.

# FINE ARTS

## DANCE

### DANCE TECHNIQUE 1

0300310

1 Credit 9-12  

### DANCE TECHNIQUE 2

0300320

1 Credit 10-12 

### DANCE TECHNIQUE 3

0300330

1 Credit 10-12 

### DANCE TECHNIQUE 4

0300334

1 Credit 10-12 

These courses provide students with opportunities to acquire knowledge and skill in two or more styles of dance. Content techniques of two or more dance forms: ballet, jazz, modern, theater, or tap, knowledge of dance terminology, and knowledge of basic choreography of movement sequences and acquisition of technique will be stressed. **Uniforms are required for this course.**


### JV DANCE

0300400

1 Credit 9-12  

### VARSITY DANCE

0300410

1 Credit 9-12  

This class requires an audition. The purpose of this course is to provide students with in-depth instruction and opportunities for performance, to further enhance and develop techniques. Students in this ensemble are required to attend several after school rehearsals/performances. **Uniforms are required for this course.**

## LYMAN DIAMONDS-COLOR GUARD

### EURHYTHMICS 1

1305300

1 Credit 9-12  

These courses provide instruction in the development of beginning level skills in the art of performing various body movements in rhythm using musical accompaniment. This course is intended ONLY for those students who wish to audition and participate in Color Guard. **STUDENTS SIGNING UP FOR THIS COURSE WILL BE REQUIRED TO PARTICIPATE IN THE FALL MARCHING SEASON AND THE WINTER GUARD SEASON JANUARY TO MAY.** No class change after first semester.

Audition dates and times will be held in April and specific dates will be announced. Students wishing to tryout must attend both workshops as well as the final audition to be considered. Auditionees should wear dance or active wear suitable for dancing, wear their hair up, and be ready to learn combinations from Lyman Dance Staff and leadership. These students should also have room in their schedule for a Dance Team or Color Guard class block as this class is co-curricular. Once a student is accepted onto one of the teams, the financial and behavior commitments are presented and the students and parents have the opportunity to accept or deny the position with the signing of a contract. Any other questions should be directed to Mr. Porter at 407-746-2000.

## VOCAL MUSIC

### CHORUS 1 - FIRST IMAGE

1303300FI

1 Credit  9-10

Students are responsible for a few after-school rehearsals and performances. **Uniforms are required for this course.**

### CHORUS 2

1303310

### CHORUS 3

1303320

### CHORUS 5 HONORS

1303340

### CHORUS 6 HONORS

1303350

1 Credit 10-12

Prerequisite: First Image. Chorus 2-6 provides students with instruction in the development of musicianship and varied choral literature. Students in these groups are responsible for after-school rehearsals/performances. **Uniforms are required for this course.**

### CHORUS HIGH/LOW 2

1303370

### CHORUS HIGH/LOW 3

1303380

### CHORUS HIGH/LOW 4

1303390

1 Credit 10-12

Prerequisite: Audition only. Calliope, an intermediate-advanced women's chorus/show choir, provides students the opportunity to develop proper vocal technique and sing a variety of literature. Students will be responsible for several after school rehearsals/performances. **Uniforms are required for this course.**

## INSTRUMENTAL MUSIC

### BAND 1

1302300

1 Credit 9

### BAND 2

1302310

1 Credit 10

### BAND 5 HONORS

1302340

1 Credit 11

### BAND 6 HONORS

1302340

1 Credit 12

Prerequisite: Prior band experience, Director Authorization. This is a performance-based class made up of wind instrumentalists with previous experience on their instrument. The students in these ensembles will perform level appropriate literature that will develop their musicianship skills and the fundamental techniques on their primary instrument. As freshmen, students begin in entry-level courses. Progression to upper level courses of study is based upon fulfillment of course standards as detailed by instructors. Students who progress to third and fourth year levels in instrumental music courses can earn honors credit. Students in band are required to participate as members of the Lyman High School Marching Band. Participation in co-curricular after school rehearsals and performances is required. Fundraising opportunities will be available to offset fees for co-curricular events. Contact instructors for more information on these programs. All Wind Band Students sign up for Band level according to grade.

### PERCUSSION ENSEMBLE 1

13023000P

1 Credit 9

### PERCUSSION ENSEMBLE 2

13023100P

1 Credit 10

### PERCUSSION ENSEMBLE 5 HONORS

13023400P

1 Credit 11

### PERCUSSION ENSEMBLE 6 HONORS

13023500P

1 Credit 12

Prerequisite: Prior band experience, Director Authorization. This is a performance-based class made up of all percussionists at Lyman High School. Students in this ensemble will develop their rudimental and basic percussion skills as well as develop a strong level of musicianship. These students comprise the percussion section for the marching band and concert bands as well as a stand-alone ensemble. Students are expected to attain expertise in all facets of Percussion performance, including but not limited to keyboards, timpani, Latin percussion, etc. (This is not a drumset or just snare drum class). Membership in the Lyman High School Marching Band is required. Participation in co-curricular after school rehearsals and performances is required. Fundraising opportunities will be available to offset fees for co-curricular events. Contact instructors for more information on these programs. All Percussion Students sign up for Percussion Ensemble level according to grade.





# FINE ARTS

## INSTRUMENTAL MUSIC

**JAZZ ENSEMBLE 1**  
1302500

1 Credit 9

**JAZZ ENSEMBLE 2**  
1302510

1 Credit 10

**JAZZ ENSEMBLE 3 HONORS**  
1302520

1 Credit 11

**JAZZ ENSEMBLE 4 HONORS**  
1302530

1 Credit 12

Prerequisite: Prior band experience, enrollment in Band or Percussion class, Director Authorization. This performance-based class consists of students interested in learning and performing different styles of Jazz including Latin, Swing, Funk, and more. These students must be concurrently enrolled in a Band or Percussion class. Participation in co-curricular after school rehearsals and performances is required. Contact instructors for more information on these programs. All Jazz Ensemble Students sign up for Jazz Ensemble level according to grade.

## VISUAL ART

**TWO-DIMENSIONAL ART 1**  
0101300

1 Credit 9-12

This year-long, entry-level class promotes the enjoyment and appreciation of art as students experiment with the media and techniques used to create two-dimensional (2-D) artworks, including drawing, painting, printmaking, collage, and more. Students regularly reflect on aesthetics and issues related to art and anchor the structural elements of art and organizational principles of design, experimenting with them as they create.

**THREE-DIMENSIONAL STUDIO ART 1**  
0101330

1 Credit 9-12

Students explore how space, mass, balance, and form combine to create aesthetic forms or utilitarian products and structures. Instruction may include, but is not limited to, content in green or industrial design, sculpture, ceramics, or building arts. Media may include, but are not limited to, cardboard, clay, wire, plaster, and paper maché with consideration of the workability, durability, cost, and toxicity of the media used. The course includes the principles of design, color theory and basic drawing skills.

**AP ART HISTORY**  
0100300

1 Credit 10-12

This course will provide students with the benefit of an understanding and enjoyment of painting, sculpture, architecture and other art forms within historical and cultural contexts. Students will examine the major forms of artistic expression of the past as well as those of our time and of a variety of cultures. This course does require a high degree of commitment by those students seriously interested in advanced placement and/or college credit. Based on the results of the Advanced Placement exam, college credit may be awarded by participating colleges and universities.

## VISUAL ART

**PORTFOLIO DRAWING HONORS** PFA  
0109310

**PORTFOLIO 2D DESIGN HONORS**  
0109320 PFA

1 Credit 10-12

Prerequisite: Art 2D or Art 3D. Students produce a portfolio of work that shows growth in content, technique, and process. They will produce and maintain a personal sketchbook/journal that illustrates an exploration and evaluation of ideas, techniques, and imagery that can be applied to their work. Career research, Art Criticism and Art History are part of this course as students explore the work of historic and contemporary artists.

**AP ART/2D DESIGN PORTFOLIO**  
0109350

**AP ART/3D DESIGN PORTFOLIO**  
0109360

**AP ART/DRAWING PORTFOLIO**  
0104300

**AP ART/2D DESIGN INNOVATION**  
0109355

1 Credit 11-12

Prerequisite: Art 2D/3D or Portfolio. These are college level art classes for students in 11th and 12th grades. These classes are for students with experience in a variety of art processes and techniques and can express their ideas visually. Students must have a sketchbook to document research, preliminary sketches and experimental processes. Students will need to keep up with due dates, which may require working outside of class time. Students will need art supplies to work with at home. Attendance at an art show opening is required for every student. The course requires that students prepare a body of work for the College Board AP studio exam consisting of the following sections: Sustained Investigation (60% of exam score, a minimum of 15 digital images that include works of art and design and process documentation + typed responses to prompts, providing information about the questions that guided their investigation. Selected Works (40% of exam score, 5 physical works or high-quality reproductions of physical works with written responses on paper describing the materials, processes, and ideas used).

## ELECTIVES

**MUSICAL KEYBOARD 1**  
1301360

1 Credit 9-12

This course will provide students with introductory experiences on the keyboard in performance skills and the interpretation of simple notation. The content includes the development of music fundamentals, keyboard performance, technique, and how to read music.

**MUSICAL KEYBOARD 2**  
1301370

1 Credit 10-12

Prerequisite: Musical Keyboard 1. This course continues to develop musical skills and knowledge learned in Musical Keyboard 1.

**AP MUSIC THEORY**  
1300330

1 Credit 10-12

Prerequisite: minimum one year keyboard or instrument training and able to read notes and rhythm. The objective of this course is to develop a student's ability to recognize, understand, and describe the basic materials and processes of music through the activities of listening, performing, composing, and analyzing.

## DIGITAL MUSIC TECHNOLOGY

**LEVEL 1**  
1304300

1 Credit 9-12

**LEVEL 2**  
1304310

1 Credit 10-12

A background in music is preferred. Students will explore fundamental applications of music and sound engineering. As they learn and create, they also learn history and aesthetics of development with technology used to create music. Courses must be taken in sequential order.



# FINE ARTS

## THEATRE

### TECHNICAL THEATRE NON-PERFORMANCE

#### TECHNICAL THEATRE DESIGN & PRODUCTION 1

0400410

1 Credit PFA 9-12

Students focus on developing the basic skills required to develop creative and affective technical designs for several aspects of Theatre, including Scene Design, Lighting Design, Sound Design, Costume Design, and Stage Makeup Design. Students explore and learn to analyze dramatic scripts, seeking production solutions through historical, cultural, and geographic research. Students also learn the basics of standard conventions of design presentation and documentation, including hand-drafting for scenery and lighting, as well as creating all other technical drawings through skills development and the study of the Elements and Principles of Art and Design. Students will grasp the organizational structure of theatre production and creative work in a collaborative environment. Participation in the creation and presentation of class projects serve as a culmination of specific instructional goals. Students may be required to attend public performances, and are invited to participate in technical work, rehearsals, and/or performances beyond the school day to support, extend, and assess learning in the classroom.

#### TECHNICAL THEATRE DESIGN & PRODUCTION 2

0400420

1 Credit 10-12 PFA

Prerequisite: Tech Design 1. Building on the basic skills learned in Tech 1, students will continue to grow as artists and leaders, through an in-depth study and design development of a chosen script throughout the course of the school year, resulting in a portfolio of Theatre Design work studying all aspects of the production, including Scene Design, Lighting Design, Sound Design, Costume Design, and Stage Makeup Design. Students develop assessment and problem-solving skills; the ability to connect selected literature to a variety of cultures, history, and other content areas. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend public performances, and are invited to participate in technical work, rehearsals, and/or performances beyond the school day to support, extend, and assess learning in the classroom.

#### TECHNICAL THEATRE DESIGN & PRODUCTION 3

0400430

1 Credit PFA 11-12

THEATRE LEADERSHIP CLASS/PORTFOLIO LEVEL

Prerequisite: Tech Design 2. Students regularly reflect on aesthetics and issues related to and addressed through theatre, and create within various aspects of theatre. Student designers and technicians assemble a portfolio that showcases a body of work representing artistic growth over time, and prepare for the audition/interview process post-high school. They research potential job opportunities in the film, television, game animation, and theatre industries, as well as scholarships and opportunities available at the university level. Students will develop growing command of theatre skills and techniques in one or more areas; and evidence of significant oral and written analytical and problem-solving skills. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend or participate in technical work, rehearsals, and/or performances beyond the school day to support, extend, and assess learning in the classroom. An inquiry-based capstone project may be required. Public performances may serve as a culmination of specific instructional goals. Students may be required to participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom.

## THEATRE

### TECHNICAL THEATRE DESIGN & PRODUCTION 4 HONORS

0400440

1 Credit PFA 12

THEATRE LEADERSHIP CLASS/PORTFOLIO LEVEL

Prerequisite: Tech Design 3. Students regularly reflect on aesthetics and issues related to and addressed through theatre, and create within various aspects of theatre in ways that are progressively more innovative. Students analyze increasingly more sophisticated theatre literature to inform the work of developing technical design and production pieces for one-acts or a larger production. Student designers and technicians assemble a portfolio that showcases a body of work representing artistic growth over time, and prepare for the audition/interview process post-high school. They research potential job opportunities in the film, television, game animation, and theatre industries, as well as scholarships and opportunities available at the university level. Students will develop growing command of theatre skills and techniques in one or more areas; and evidence of significant oral and written analytical and problem-solving skills. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend or participate in technical work, rehearsals, and/or performances beyond the school day to support, extend, and assess learning in the classroom. An inquiry-based capstone project may be required. Public performances may serve as a culmination of specific instructional goals. Students may be required to participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom.

## THEATRE PERFORMANCE

### ACTING 1

0400370

1 Credit PFA 9-12

Through improvisation, simple scripted scenes, performance projects, and/or practical application, students learn to identify what makes performances believable and explore the tools used to create, articulate, and execute them. While studying basic improvisation techniques, pantomime and mime techniques, as well as more advanced movement techniques, students will be able to grow as theatre artists, and apply physicality through an in depth workshop of vocal production for the stage. Students will have an overview of ancient Theatre History, and will learn to choose and analyze proper audition material for performances. The school year will culminate in a formal audition unit, preparing the acting student for any public performance or presentation in and out of class. Upon completion of this course, students have a strong foundation for future scene work, script analysis, and play production. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend public performances, and are invited to participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom.

### ACTING 2

0400380

1 Credit PFA 10-12

Prerequisite: Acting 1. Students examine the various dimensions of characters through analysis, discussion, and classroom performance, working with scripts from a variety of time periods and cultures. They learn to break down a scene from a character's point of view, and also learn to sustain a character and build the relationship between actor and audience. Through an in-depth study of the Five Great Acting Teachers, students of Acting 2 will develop their own Acting process, and will be able to confer intelligently about the ideal style to use for any given script. Students emerge from this Intermediate Acting level with a strong foundation to bring to any Theatre performance. Students may be required to attend public performances, and/or participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom.

## THEATRE

### ACTING 3

0400390

1 Credit PFA 11-12

THEATRE LEADERSHIP CLASS/PORTFOLIO LEVEL

Prerequisite: Acting 2. Students focus on development of significant acting skills and knowledge of the actor's literature, compiling an audition book, as well as a working actor's portfolio for exhibition and/or the interview process. They research potential job opportunities in the film, television, game animation, and theatre industries, as well as scholarships and opportunities available at the university level. An inquiry-based capstone project may be required. Public performances may serve as a culmination of specific instructional goals. Students may be required to participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom.

### ACTING 4 HONORS

0400400

1 Credit PFA 12

THEATRE LEADERSHIP CLASS/PORTFOLIO LEVEL

Prerequisite: Acting 3. Students create characters for theatrical and film/video productions through scene, character, and technical analysis. Students focus on development of significant acting skills and knowledge of the actor's literature, compiling an audition book, as well as a working actor's portfolio for exhibition and/or the interview process. They research potential job opportunities in the film, television, game animation, and theatre industries, as well as scholarships and opportunities available at the university level. An inquiry-based capstone project may be required. Students' "critical eye" becomes more developed and significant mastery of artistic choices becomes evident. Public performances may serve as a culmination of specific instructional goals. Students may be required to participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom. Productions through scene, character, and technical analysis. Through improvisation, script writing, and aesthetic creation and collaboration, actors refine their working knowledge and independent thought, articulating and justifying their creative choices. Students' "critical eye" becomes more developed and significant mastery of artistic choices becomes evident. An inquiry-based capstone project may be required. Public performances may serve as a culmination of specific instructional goals. Students may be required to participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom.

## REPERTORY THEATRE LAB

### THEATRE 2 PFA

0400320

1 Credit 10

### THEATRE 3 HONORS PFA

0400330

1 Credit 11

### THEATRE 4 HONORS PFA

0400340

1 Credit 12

Prerequisite: Audition only. Through collaboration and collective research and design development, students in the Repertory Theatre Lab courses will spend the majority of the school year producing and preparing a one act play slated to perform at the various Thespian Festivals. Following the end of festival season, Repertory Theatre Lab will engage in the creation of an experimental Theatre performance, starting completely from scratch. Such performances may involve: Devising, Theatre for Social Change, Puppetry, Children's Theatre, Physical Theatre, etc. Students in this course will develop the skills necessary to work in a deadline driven situation, will learn to work collaboratively as an artistic team, and will emerge creative and strong leaders and Theatre Artists. Students in this course must be serious Theatre practitioners, and must continue their training in a level 2, 3, or 4 course withing the Lyman Theatre Curriculum. Note: Due to participation in the Thespian Festivals, there is a cost associated with this course. Details are outlined on the class application.



# WORLD LANGUAGES

# PHYSICAL EDUCATION



All students are required to take and satisfactorily complete Personal Fitness and one additional half-credit of another Physical Education course for graduation. Additional elective courses in Physical Education stress coeducational, individual and dual activities, as well as a variety of team sports and aquatics. STUDENTS MAY ONLY RECEIVE CREDIT FOR EACH PHYSICAL EDUCATION COURSE ONCE.

The language programs are intended for the student learning the language as a foreign language. Native speakers should pursue a different language. All world language courses are considered elective credits. All languages at Level III or above receive honors credit for GPA purposes.

## AP SPANISH LANGUAGE

0708400

1 Credit 10-12

Responding to the 21st-century students' needs, this course is designed to continue developing Spanish language skills through authentic material such as Internet articles, podcasts, radio broadcasts, periodicals publications, and electronic communications. The course objective is to prepare the student to take the AP Spanish Language and Culture exam in May to obtain college credit. The course is taught in Spanish.

## PERSONAL FITNESS

1501300

0.5 Credit 9-12

This course is designed to provide students with opportunities to develop an individual optimal level of physical fitness and acquire knowledge of the physical fitness concept. Personal Fitness is REQUIRED for graduation.

## WEIGHT TRAINING 1

1501340

## WEIGHT TRAINING 2

1501350

## WEIGHT TRAINING 3

1501360

0.5 Credit each 9-12

This course is designed to provides opportunities to acquire basic knowledge and skill in weight training.

## CARE & PREVENTION OF ATHLETIC INJURIES

1502490

0.5 Credit 9-12

This is an introductory course in methods and theories involved with prevention, care, and rehabilitation of athletic injuries. Satisfies the required 0.5 credit of Physical Education

## FIRST AID & SAFETY

0800320

0.5 Credit 10-12

Prerequisite: Care & Prevention. This course provides an overview of the causes and preventions of unintentional injuries, appropriate emergency responses to those injuries and crisis response planning.

## BASKETBALL 1

1503310

## BASKETBALL 2

1503315

0.5 Credit each 9-12

Basketball teaches basic knowledge and fundamental skills and techniques of the game.

## TEAM SPORTS 1

1503350

## TEAM SPORTS 2

1503360

0.5 Credit each 9-12

Team Sports provides students with opportunities to acquire knowledge of the strategies of sports play and develop skills in selected team sports while maintaining and/or improving their personal fitness.

## VOLLEYBALL 1

1505500

## VOLLEYBALL 2

1505510

## VOLLEYBALL 3

1505520

0.5 Credit each 9-12

Volleyball teaches skills in required for the game, while maintaining and/or improving their personal fitness.

## AP SPANISH LITERATURE

0708410

1 Credit 11-12

Prerequisite: AP Spanish Language. This course allows students to study selected literary texts to learn how Spanish Literature was/is influenced by historical movements and culture. The objective of the course is to prepare students to interact with texts so they successfully compose necessary essays and demonstrate comprehension. The course is taught completely in Spanish.

State Bill CS/HB 2997(1990 Legislature) has allowed the Florida University system to agree that the sequence of courses in American Sign Language will meet the foreign language credit for entrance requirements, but may not meet university requirements for graduation. Students who select these courses should be aware that it might not count as a foreign language credit by colleges and universities outside of Florida.

## THE AMERICAN SIGN LANGUAGE PROGRAM IS BEING DISCONTINUED.

## ASL 2 IS BEING OFFERED FOR ONLY THOSE STUDENTS WHO COMPLETED ASL 1.

## AMERICAN SIGN LANGUAGE 2

0717310

1 Credit 10-12

Prerequisite: ASL 1. This course will further develop knowledge of sign language and an awareness of cultural aspects of the deaf community. Students will increase their ASL vocabulary by approximately 700 signs while continuing to use grammatical principles. Students will create a video of meaningful dialogue, narratives, and dramas.

## JAPANESE 1

0712300

1 Credit 9-12

The purpose of this course is to enable students to begin to acquire proficiency in Japanese through a linguistic, communicative, and cultural approach to language learning. Emphasis is placed on the development of listening, speaking, reading, and writing skills and on acquisition of the fundamentals of applied grammar. Cross-cultural understanding is fostered and real-life applications are emphasized throughout the course.

## JAPANESE 2

0712310

## JAPANESE 3 HONORS

0712320

1 Credit 10-12

Prerequisite: Previous level of Japanese. The purpose of these courses are to enable students to enhance proficiency in Japanese through a linguistic, communicative, and cultural approach to language learning. There is continued emphasis on the development of listening, speaking, reading and writing skills and on acquisition of the fundamentals of applied grammar. Cross-cultural understanding is fostered and real-life applications are emphasized throughout the course.

## SPANISH 1

0708340

1 Credit 9-12

This course is designed to emphasize speaking and listening skills with oral participation. Reading and writing are introduced and basic grammar structures explained. Students will be introduced to the culture and customs of various Spanish-speaking countries.

## SPANISH 2

0708350

## SPANISH 3 HONORS

0708360

## SPANISH 4 HONORS

0708370

1 Credit 9-12

Prerequisite: Previous level of Spanish. This program is designed to continue the development of skills in listening and speaking with an emphasis on conversation. Reading and writing will be further developed through expanded vocabulary and more complex grammatical structures. Culture, history, and geography will be studied in greater depth. Opportunities for enjoyment of the customs, ideas and heritage will increase.

# GENERAL ELECTIVES

## SAT PREP 1700370

0.5 Credit 10-12  
Prerequisite: Algebra 2 or concurrently. The student will learn skills in order to be successful on SAT & ACT exams while also becoming informed of the college admission process. Students will also write their college essays and learn how to increase their odds to get into the college of their choice.

## DEBATE 1007300

## DEBATE 2 1007340

1 Credit each 9-12  
These courses provides instruction in the fundamentals of formal and informal oral communication. Major instructional areas will include forms of oral communication, techniques of group discussion techniques of effective listening, analysis of the audience, and techniques of public speaking. Courses must be taken in sequential order.

## JOURNALISM 1 1006300

1 Credit 9-12  
Explore the possibility of becoming a journalist, photo journalist or layout designer through Journalism 1. Students will be introduced to journalistic media, desktop publishing, advertising sales and design, layout and writing for publications. This course is designed for students who are interested in trying new opportunities to express themselves through writing, publishing and designing our school newspaper that is focused on Lyman's media presence through both digital and print newspaper.

## NEWSPAPER & YEARBOOK

1006331NP1-Newspaper 1  
1006332NP2-Newspaper 2  
1006333NP3-Newspaper 3  
1006331YB1-Yearbook 1  
1006332YB2-Yearbook 2  
1006333YB3-Yearbook 3

1 Credit each 10-12  
Prerequisite: Journalism 1. Up to two classes per year may be taken. Design and create Lyman's stellar publications as an apprentice for either the school newspaper (print and digital) or the yearbook. Students will work on all aspects of the publication including news, sports, features, photos and advertising sales. Students will apply and refine journalistic skills using word processing (Microsoft Office) and Desktop Publishing programs (Adobe InDesign, Photoshop, Illustrator). Students will have the opportunity to acquire industry certification. There are mandatory summer ad sales requirements, for this course as well as after school obligations for both publications. Summer camp opportunities are also highly encouraged to enhance skills and discover advanced journalistic techniques.

## PERSONAL FINANCIAL LITERACY HONORS

2102374

0.5 Credit 10-12  
The primary content for the course pertains to the study of learning the ideas, concepts, knowledge and skills that will enable students to implement beneficial personal decision-making choices; to become wise, successful, and knowledgeable consumers, savers, investors, users of credit and money managers; and to be participating members of a global workforce and society.

## ARMY JUNIOR RESERVE OFFICERS TRAINING PROGRAM

### JROTC LEADERSHIP ED. TRAINING 1

1801300

### JROTC LEADERSHIP ED. TRAINING 2

1801310

### JROTC LEADERSHIP ED. TRAINING 3

1801320

### JROTC LEADERSHIP ED. TRAINING 4

1801330

1 Credit each 9-12

The Army JROTC program is a progressive elective that teaches leader development by instilling a strong sense of integrity, responsibility, respect for others, ethics, critical thinking, and respect for authority. The curriculum includes serving in company and battalion leadership positions. This course does not train or recruit for the military; rather the Army JROTC mission is to motivate young people to be better citizens. Students must possess a sincere intent to participate and comply with the rigorous requirements of the program (uniform wear, grooming, drill/ceremonies, physical fitness, and community service). A minimum 2.0 CGPA and positive behavior record is required to progress to the next level. Students may gain advanced military promotions if enlisting after graduation or compete for Senior ROTC scholarships and academy appointments. Students wear the Army JROTC uniform once a week. The uniform is issued (no cost) to students in positive academic standing. Courses must be taken in sequential order.

## COMPUTER SCIENCE HONORS

9007610

1 Credit 9-10

Corequisite: Algebra 2 Honors. In this course students will explore the area of computer science. Students will be able to design and implement coding in order to solve real-world problems. Students who take this course are able to participate in the new computer science pathway which includes both AP courses and dual enrollment.

## AP COMPUTER SCIENCE A

0200320

1 Credit 11-12

Corequisite: Algebra 2 Honors. This course is for students interested in improving their analytical thinking and problem-solving skills. Students will learn the fundamental concepts of software development (such as writing algorithms, storing and manipulating data, and object-orientation programming) through the Java programming language. This year-long course is equivalent to a first semester college-level course in Computer Science and contains the AP exam in May, for which most colleges award credit to students who achieve a passing score. Note: Students who are considering taking multiple computer science courses are encouraged to take the AP Computer Science Principles before taking this class, however it is NOT required. Students who have successfully completed Geometry Honors may take this as their first computer science course. Students who are not planning to major in computer science in college will benefit from the skills and concepts practiced in this class as many professions other than computer science use these skills.

## AP COMPUTER SCIENCE PRINCIPLES

0200335

1 Credit 10-12

AP Computer Science Principles introduces students to the central ideas of computer science, inviting students to develop the computational thinking vital for success across multiple disciplines. The course is unique in its focus on fostering students to be creative and encouraging students to apply creative processes when developing computational artifacts. Students design and implement innovative solutions using an iterative process similar to what artists, writers, computer scientists, and engineers use to bring ideas to life.

## LIFE & CAREER PLANNING SLS1301

### COLLEGE SUCCESS

SLS1101

0.5 Credit each - 3 College Credits 11-12

These courses are designed to assist students with the lifelong process of career development. Students will participate in a variety of experiences as a group and individually. The coursework is designed to help students identify and examine their interests, personality, values, self-esteem, critical thinking skills and to use this increased self-awareness to make decisions about majors and careers.

### OJT-5TH PERIOD

83004205

### OJT-6TH PERIOD

83004206

1 Credit 11-12

Prerequisite: Must have a job and submit pay stub.

### LEADERSHIP 1

2400300

### LEADERSHIP 2

2400310

### LEADERSHIP 3

0500520

### LEADERSHIP 4

0500530

1 Credit Pass/Fail 9-12

Prerequisite: Application. Leadership is scheduled for Student Government class officers and committee members as designated by Student Government Sponsor. Pick up an application from Mrs. King in room 03-003. Return completed applications to room 03-003.

## SEMINOLE COUNTY VIRTUAL SCHOOL

Notice: For the 2020-21 school year, SCPS will provide full-time virtual instruction options to students in grades K-12. Enrollment will be open from April 5, 2021 - July 20, 2021. For more information, please see your school guidance counselor or visit <http://virtualschool.scps.k12.fl.us/>

### VIRTUAL LAB

333333H/333333S 9-12

Students have the opportunity to enroll in a Seminole County Virtual School class for credit. Students that select a Seminole County Virtual School course ONLY are eligible to spend a period of the school day at Lyman High School in the Lyman virtual "ePathways" lab if space is available. Students enrolled in Florida Virtual School or other virtual school offerings are not eligible to spend a period of the day in the Lyman virtual "ePathways" lab.

## DUAL ENROLLMENT-SSC

As per the Seminole County Public Schools Student Progression Plan, "Students enrolled in an approved dual enrollment course are exempt from the payment of registration, tuition, and laboratory fees for no more than nine credit hours per semester".

Prerequisite: 3.0 unweighted GPA, and application  
5555555 11-12

Students who are interested in taking Dual Enrollment at Seminole State College must fill out a Dual Enrollment application. Consult your counselor before placing this program on your registration card. All dual enrollment coursework must be approved prior to registering.



# ATHLETICS AND ELIGIBILITY

Students must be promoted to the ninth grade to be eligible for sports in the fall. All students must have a cumulative 2.0 grade point average to stay eligible for sports.

## THE SPORTS TEAMS THAT ARE AVAILABLE AT LYMAN INCLUDE:

### ALL YEAR

Cheerleader (Boys & Girls)

### FALL

Bowling (Boys & Girls)  
Cross Country (Boys & Girls)  
Football  
Golf (Boys & Girls)  
Slow Pitch Softball  
Swimming (Boys & Girls)  
Volleyball (Girls)

### WINTER

Basketball (Boys & Girls)  
Soccer (Boys & Girls)  
Weightlifting (Girls)  
Wrestling (Boys & Girls)  
Competitive Cheer (Boys & Girls)

### SPRING

Baseball  
Fast Pitch Softball  
Lacrosse (Boys & Girls)  
Tennis (Boys & Girls)  
Track and Field (Boys & Girls)  
Volleyball (Boys)  
Water Polo (Boys & Girls)  
Weightlifting (Boys)

All athletes must have a physical examination by a physician, consent and release forms, and submit their birth certificate before he/she can begin practicing with a team. Students must get their physical exam prior to team tryouts. Go to [www.lyman.scps.k12.fl.us/sports](http://www.lyman.scps.k12.fl.us/sports) for more information

## N.C.A.A. – COLLEGE SPORTS

In order to be eligible to practice and participate in intercollegiate athletic competition and receive an athletic scholarship the first year of attendance, a freshman student entering an NCAA Division I or II institution must successfully complete a course of study and must achieve a minimum grade point average in the core curriculum, as well as present a minimum score on the ACT or SAT. Questions concerning these NCAA academic requirements may be directed to the NCAA. More information is available on the NCAA website: [www.ncaa.org](http://www.ncaa.org).

### CORE COURSES

- NCAA Division I and II requires 16 core courses.
- A student must graduate from high school and achieve a minimum 2.3 grade point average in the core curriculum course work (on a 4.0 scale) for Division 1 and a 2.0 grade point average for Division 2
- The core courses include: 4 years English, 3 years Math (Algebra or higher), 2 years Natural/Physical Science, 1 year additional English, Math, or Natural/Physical Science, 2 years Social Science, 4 years additional courses (can be listed previously, foreign language, or comparative philosophy).
- Courses taken in PLATO as well as Liberal Arts Mathematics DO NOT COUNT toward the 16 core courses as determined by the NCAA.

### TEST SCORES

- Division I uses a sliding scale to match test scores and core grade point averages. The sliding scale for those requirements can be viewed here: [http://fs.ncaa.org/Docs/eligibility\\_center/Important\\_New\\_Rules/2016\\_DI\\_Academic\\_Requirements.pdf](http://fs.ncaa.org/Docs/eligibility_center/Important_New_Rules/2016_DI_Academic_Requirements.pdf)
- Division II requires a minimum SAT score of 820 or an ACT sum score of 68.
- The SAT score used for NCAA purposes includes only the critical reading and math sections. The writing section of the SAT is not used.
- The ACT score used for NCAA purposes is a sum of the following four sections: English, mathematics, reading, and science.
- When you register for the SAT or ACT, use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency. Test scores that appear on transcripts will not be used.

## SEMINOLE COUNTY PUBLIC SCHOOLS EDUCATIONAL EQUITY—NOTICE OF NONDISCRIMINATION

The Educational Equity Administrator for Seminole County Public Schools has the responsibility of assuring compliance with the educational equity requirements by providing technical expertise, monitoring activities or programs related to compliance, and responding to equity complaints. One of the responsibilities is to administer the Educational Equity Complaint/Grievance Procedures as adopted by the School Board.

It is the policy of the School Board of Seminole County, Florida, that no employee, student, or applicant shall - on the basis of race, color, national origin, sex, disability, marital status, age, religion, or any other basis prohibited by law - be excluded from participating in, be denied the benefits of, or be subjected to discrimination and harassment under any educational programs, activities, or in any employment conditions, policies, or practices conducted by the District. Additionally, the School board of Seminole County provides equal access to public school facilities for the Boy Scouts of America and other designated youth groups as required by 34 C.F.R. 108.9.

Every employee, student, or applicant for employment at Seminole County Public Schools has a solemn right to be treated fairly, equally, equitably, and with dignity. If for any reason you - the employee, student, or applicant for employment - find that you have been victimized by acts of discrimination and or harassment, whether intentional or unintentional, you are strongly encouraged to file an Educational Equity Complaint or Grievance with the Educational Equity Administrator, or any county or school-level administrator. All such complaints must be immediately forwarded to the Educational Equity Administrator for dissemination, action, and resolution. Forward to: SCPS Educational Equity Administrator, Seminole County Public Schools, Educational Support Center, 400 E. Lake Mary Blvd., Sanford, FL 32773-7127. (407) 320-00198.



2021-2022  
Curriculum Guide

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# COMPREHENSIVE COURSE LISTING

## ACADEMY OF ENGINEERING | PAGE 12-13

Aerospace Engineering.....	8600620
AP Computer Science A.....	0200320
AP Computer Science Principles.....	0200335
Civil Engineering & Architecture .....	8600590
Computer Science Honors .....	9007610
Engineering Design and Development.....	8600650
Environmental Sustainability.....	8600630
Intro to Engineering Design .....	8600550/EGN1111C
Principles of Engineering.....	8600520/MTB1329
Foundations of Robotics .....	9410110
Robotic Design.....	9410120
Robotic Systems.....	9410130
Robotic Applications.....	9410140

## AP COURSES

AP American Government.....	2106420
AP Art History .....	0100300
AP Art 2D Design Portfolio .....	0109350
AP Art 3D Design Portfolio .....	0109360
AP Art Drawing Portfolio.....	0104300
AP Biology.....	2000340
AP Calculus AB.....	1202310
AP Calculus BC.....	1202320
AP Chemistry .....	2003370
AP Computer Science Principles.....	0200335
AP Computer Science A.....	0200320
AP English Language .....	1001420
AP English Literature & Composition.....	1001430
AP Environmental Science.....	2001380
AP Human Geography .....	2103400
AP Macroeconomics .....	2102370
AP Music Theory .....	1300330
AP Physics 1 .....	2003421
AP Physics 2 .....	2003422
AP Physics C.....	2003430
AP Psychology .....	2107350
AP Research.....	1700355
AP Seminar.....	1700350
AP Spanish Language.....	0708400
AP Spanish Literature.....	0708410
AP Statistics.....	1210320
AP U.S. History.....	2100330
AP World History.....	2109420

## CAREER & TECHNICAL EDUCATION | PAGE 14-17

Automotive Tech 1 Honors.....	9504110
Automotive Tech 2 Honors.....	9504120
Automotive Tech 3 Honors.....	9504130
Automotive Tech 4 Honors.....	9504140
Automotive Tech 5 Honors.....	9504150
Automotive Tech 6 Honors.....	9504160
Building Trades & Construction 1 .....	8722010
Building Trades & Construction 2 .....	8722120
Building Trades & Construction 3 Honors .....	8722130
Building Trades & Construction 4 Honors .....	8722140
Culinary Arts 1.....	8800510
Culinary Arts 2.....	8800520
Culinary Arts 3 Honors.....	8800530
Culinary Arts 4 Honors.....	8800540
Digital Design 1 Honors.....	8209510
Digital Design 2 Honors.....	8209520
Digital Design 3 Honors.....	8209530
Digital Design 4 Honors.....	8209540
Digital Information Technology .....	8207310
Early Childhood Education 1 .....	8405110
Early Childhood Education 2 .....	8405120
Early Childhood Education 3 Honors .....	8405130
Early Childhood Education 4 Honors .....	8405140
Electrical 1.....	8727210
Electrical 2.....	8727220
Electrical 3 Honors.....	8727230
Fashion Marketing Applications .....	8806020
Fashion Marketing Essentials .....	8806010
Fashion Marketing Management Honors .....	8806030
HVAC/Refrigeration 1.....	8713010
HVAC/Refrigeration 2.....	8713020
HVAC/Refrigeration 3.....	8713030
Marketing Applications .....	8827120
Marketing Essentials.....	8827110
Marketing Management .....	8827130
Marketing Directed Study.....	8800100
Sports & Ent. Marketing Applications .....	8827420
Sports & Ent. Marketing Essentials.....	8827410
Sports & Ent. Marketing Management Hon .....	8827430
TV Production 1.....	8201510
TV Production 2.....	8201520
TV Production 3 Honors.....	8772130
TV Production 4 Honors.....	8772140
Web 1 Foundations of Web Design Honors.....	9001110
Web 2 User Interface Design Honors.....	9001120
Web 3 Scripting Fundamentals Honors .....	9001130
Web 4 Media Integration Essentials Honors.....	9001140
Welding Fundamentals 1 Honors .....	9204410

## ENGLISH | PAGE 20

English 1.....	1001310
English 1 ESOL.....	1002300
English 1 Honors.....	1001320
English 2.....	1001340
English 2 ESOL.....	1002310
English 2 Honors.....	1001350
English 3.....	1001370
English 3 ESOL.....	1002320
English 3 Honors.....	1001380
English 4 College Prep.....	1001405
English 4 ESOL.....	1002520
English 4 Honors.....	1001410
AP English Language .....	1001420
AP English Literature & Composition.....	1001430
AP Seminar.....	1700350
AP Research.....	1700355

## FINE ARTS | PAGE 24-26

<b>DANCE.....</b>	<b>page 24</b>
Dance Technique 1 .....	0300310
Dance Technique 2.....	0300320
Dance Technique 3.....	0300330
Dance Technique 4.....	0300334
Dance JV.....	0300400
Dance Varsity .....	0300410
Eurhythmics 1 .....	1305300
Eurhythmics 2 .....	1305310
Eurhythmics 3 .....	1305320
Eurhythmics 4 .....	1305330

## VOCAL MUSIC.....page 24

Chorus 1 First Image.....	1303300FI
Chorus 2.....	1303310
Chorus 3.....	1303320
Chorus 5 Honors .....	1303340
Chorus 6 Honors .....	1303350
Chorus High/Low 2 .....	1303370
Chorus High/Low 3 .....	1303380
Chorus High/Low 4 .....	1303390

## INSTRUMENTAL MUSIC.....page 24 & 25

Band 1 .....	1302300
Band 2 .....	1302310
Band 5 Honors.....	1302340
Band 6 Honors.....	1302300
Percussion Ensemble 1 .....	1302300D
Percussion Ensemble 2.....	1302310D
Percussion Ensemble 5 Honors .....	1302340D
Percussion Ensemble 6 Honors .....	1302350D
Jazz Ensemble 1 .....	1302500
Jazz Ensemble 2 .....	1302510
Jazz Ensemble 3 Honors.....	1302520
Jazz Ensemble 4 Honors.....	1302530

## VISUAL ART.....page 25

Art Two Dimensional .....	0101300
Art Three Dimensional .....	0101330
Portfolio Drawing.....	0109310
Portfolio 2D Design.....	0109320
AP Art 2D Portfolio .....	0109350
AP Art 3D Portfolio.....	0109360
AP Art Drawing Portfolio.....	0104300
AP Art 2D Innovation.....	0109355
AP Art History .....	0100300

## ELECTIVES.....page 25

Musical Keyboard 1 .....	1301360
Musical Keyboard 2.....	1301370
AP Music Theory.....	1300330
Digital Music Tech 1 .....	1304300
Digital Music Tech 2 .....	1304310

## THEATRE.....page 27

Theatre Design & Production 1 .....	0400410
Theatre Design & Production 2 .....	0400420
Theatre Design & Production 3.....	0400430
Theatre Design & Production 4 Honors .....	0400440
Acting 1 .....	0400370
Acting 2 .....	0400380
Acting 3.....	0400390
Acting 4 Honors .....	0400400
Theatre 2 Lab.....	0400320
Theatre 3 Lab Honors .....	0400330
Theatre 4 Lab Honors .....	0400340

## GENERAL ELECTIVES | PAGE 28

AP Computer Science A.....	0200320
AP Computer Science Principles.....	0200335
Army JROTC 1 .....	1801300
Army JROTC 2 .....	1801310
Army JROTC 3 .....	1801320
Army JROTC 4 .....	1801330
College Success .....	SLS1101
Computer Science Honors .....	9007610
Debate .....	1007300
Debate 2 .....	1007340
Leadership 1 .....	2400300
Leadership 2 .....	2400310

Leadership 3 .....	0500520
Leadership 4 .....	0500530
Life & Career Planning .....	SLS1301
On-The-Job Training 5th.....	83004205
On-The-Job Training 6th.....	83004206
Personal Financial Literacy Honors.....	2102374
SAT Prep .....	1700370
Journalism 1 .....	1006300
Newspaper 1 .....	1006331NP1
Newspaper 2 .....	1006332NP2
Newspaper 3 .....	1006333NP3
Yearbook 1 .....	1006331YB1
Yearbook 2.....	1006332YB2
Yearbook 3.....	1006333YB3

## LANGUAGES | PAGE 27

American Sign Language 1 .....	0717300
American Sign Language 2 .....	0717310
American Sign Language 3 .....	0717320
Japanese 1 .....	0712300
Japanese 2 .....	0712310
Japanese 3 Honors .....	0712320
Spanish 1 .....	0708340
Spanish 2 .....	0708350
Spanish 3 Honors .....	0708360
Spanish 4 Honors .....	0708370
AP Spanish Language.....	0708400
AP Spanish Literature.....	0708410

## MATH | PAGE 21

Algebra 1 .....	1200310
Algebra 1 Honors.....	1200320
Geometry.....	1206310
Geometry Honors .....	1206320
Algebra 2 .....	1200330
Algebra 2 Honors.....	1200340
Math for College Readiness.....	1200700
Trigonometry Honors (Sem 1) .....	1211300
Analysis of Functions Honors (Sem 2) .....	1201315
Probability & Statistics Honors .....	1210300
Precalculus Honors .....	1202340
AP Calculus AB.....	1202310
AP Calculus BC.....	1202320
AP Statistics.....	1210320
Liberal Arts Math 1 .....	1207300
Liberal Arts Math 2 .....	1207310

## PHYSICAL EDUCATION | PAGE 27

Basketball 1 .....	1503310
Basketball 2 .....	1503315
Care & Prevention of Athletic Injuries.....	1502490
First Aid & Safety.....	0800320
Personal Fitness.....	1501300
Team Sports 1 .....	1503350
Team Sports 2.....	1503360
Volleyball 1 .....	1505500
Volleyball 2.....	1505510
Volleyball 3.....	1505520
Weight Training 1 .....	1501340
Weight Training 2 .....	1501350
Weight Training 3 .....	1501360

## SCIENCE | PAGE 22

Environmental Science .....	2001340
Biology.....	2000310
Biology Honors.....	2000320
Physical Science .....	2003310
Chemistry.....	2003340
Chemistry Honors.....	2003350
Anatomy & Physiology Honors .....	2000360
Marine Science .....	2002500
Physics .....	2003380
Physics Honors.....	2003390
Earth Space Science .....	2001320
AP Biology.....	2000340
AP Chemistry.....	2003370
AP Environmental Science.....	2001380
AP Physics 1 .....	2003421
AP Physics 2 .....	2003422
AP Physics C.....	2003430

## SOCIAL STUDIES | PAGE 23

AP Human Geography .....	2103400
World History.....	2109310
World History Honors.....	2109320
AP World History.....	2109420
U.S. History.....	2100310
U.S. History Honors.....	2100320
AP U.S. History.....	2100330
Economics .....	2102310
Economics Honors.....	2102320
AP Macroeconomics.....	2102370
American Government .....	2106310
American Government Honors.....	2106320
AP American Government.....	2106420
AP Psychology .....	2107350

