

2022-2023

Course Descriptions Academic Options

Charles F. Brush High School



SOUTH EUCLID LYNDHURST SCHOOLS

The Destination School Community

4875 Glenlyn Road
Lyndhurst, Ohio 44124-2399
Telephone: 216-691-2065
Fax: 216-691-2122
www.sel.k12.oh.us

SOUTH EUCLID LYNDHURST CITY SCHOOLS
216-691-2000

Dr. Linda N. Reid – Superintendent

Mr. Dominick Kaple, Assistant Supt. of Academics, Technology, Security, & Innovation

Ms. Melissa Thompson, Assistant Supt. of Student Services & Strategic Partnerships

BOARD OF EDUCATION

Mrs. Cassandra Jones, President

Ms. Erin Lee, Vice President

Ms.. Kathryn Falkenberg

Ms. Ashley King

Mrs. Stefanie Rhine

Faculty and Staff

Principal:

Mr. Michael Fording.....216-691-2068
Fording@sel.k12.oh.us

Assistant Principals:

Mr Kimani Smith.....216-691-2123
Assistant Principal Grade 9
smithk@sel.k12.oh.us

Mrs. Jana Jenkins.....216-691-2127
Assistant Principal Grade 10
jenkinsj@sel.k12.oh.us

Mrs Latricia Jethrow.....216-691-2642
Assistant Principal Grade 11/Excel Tecc
jethrowl@sel.k12.oh.us

Mr. Max Jobes.....216-691-2124
Assistant Principal Grade 12/Excel Tecc
jobesm@sel.k12.oh.us

Technical Education Coordinator:

Mrs. Latricia Jethrow.....216-691-2642
jethrowl@sel.k12.oh.us

Mr. Max Jobes.....216-691-2124
jobesm@sel.k12.oh.us

School Counselors:

Mrs. Bridgette Johnson.....216-691-2072
Grade 9 - johnsonb@sel.k12.oh.us

Mr. Jessie Blasier.....216-691-2073
Grade 10 - blasier@sel.k12.oh.us

Ms. Sarah Ball.....216-691-2081
Grade 11 - ballsar@sel.k12.oh.us

Ms. Christy Myers.....216-691-2139
Grade 12 - Department Coordinator - myersc@sel.k12.oh.us

Social Workers:

Mrs. Shannon Carlson.....216-691-2183
carlson@sel.k12.oh.us

Mrs. Rachel Duber.....216-691-2074
duber@sel.k12.oh.us

College and Career Readiness Coordinator

Mr. Edmund Hall.....216-691-2069
halled@sel.k12.oh.us

Youth Development Specialist

Mr. Chet Mason.....216-691-2253
mason@sel.k12.oh.us

Athletic Director:

Mr. Jamar Ross.....216-691-2121
rossj@sel.k12.oh.us

Mr. JC Commander, Asst. Athletic Director.....216-691-2645
commander@sel.k12.oh.us

SOUTH EUCLID LYNDHURST BOARD OF EDUCATION

MISSION STATEMENT

We educate, inspire, and empower students to be high achieving contributing members of a global society.

CORE BELIEFS

We Believe...

- High expectations lead to high achievement
- Education must focus on academic, social, emotional, and physical needs of students
- Diversity strengthens and enriches our communities
- Students must take ownership of their education
- Education is the responsibility of the entire community
- Open and honest communication is critical to effective relationships
- The best education is achieved in a safe and stimulating environment
- The demands of the future and the lessons of the past shape our educational practices

VISION STATEMENT

SEL City Schools will be THE DESTINATION School Community.

EQUAL EDUCATIONAL OPPORTUNITIES

South Euclid Lyndhurst City Schools provide equal opportunities for all students to achieve their potential through educational programs and activities regardless of sex, race, color, religion, national origin, handicap, or social or economic background. Inquiries concerning equal educational opportunities may be referred to the Assistant Superintendent at 216-691-2007.

CHARLES F. BRUSH HIGH SCHOOL

The mission of Charles F. Brush High School is to help students acquire knowledge, skills and attitudes that will make them productive members of society.

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DEPARTMENTAL DIRECTORY

Our Department Coordinators are available to address any questions or concerns that may arise during course selection. Please feel free to make contact by phone or email:

Fine Arts:

Mrs. April Lewis.....216-691-2089
lewis@sel.k12.oh.us

Consumer & Technical Education/Excel TECC:

Mrs. Latricia Jethrow.....216-691-2642
jethrowl@sel.k12.oh.us
Mr. Max Jobes.....216-691-2124
jobesm@sel.k12.oh.us

Guidance:

Ms. Christy Myers.....216-691-2139
myersc@sel.k12.oh.us

Language Arts:

Ms. Sallie Fine.....216-691-2117
fine@sel.k12.oh.us

Mathematics:

Mrs. Jennifer Tatman.....216-691-2130
tatman@sel.k12.oh.us

Music:

Mr. John Shamp.....216-691-2087
shamp@sel.k12.oh.us

Science:

Mr. Robert James.....216-691-2110
james@sel.k12.oh.us

Social Studies:

Mrs. Joanna Lewis.....216-691-2118
lewisj@sel.k12.oh.us

Special Education:

Mr. Jeff Berenson.....216-691-2090
berenson@sel.k12.oh.us

Ohio Department of Education Graduation Requirements

- It is the student's responsibility, along with their parent and/or guardian to see that requirements for graduation are met. Please refer to the Ohio Department of Education link below.
- The high school will make every effort to keep up-to-date records and to keep students and parents informed regarding the status of progress toward compiling the necessary coursework to meet the graduation requirements. However, it is the student's responsibility to be acquainted with and to earn the necessary requirements to meet this goal.
- [Ohio's High School Graduation Requirements](#)
- [Graduation Seals](#)
- Community Service - All students graduating from Charles F. Brush High School are required to complete 40 hours of [community service](#) or 10 hours for each year of attendance.
- [The Learning Express Library](#) delivers instantly scored online diagnostic tests, practice exercises and courses. From basic skills, remediation in Math, Reading, and Writing, to SAT, ACT and Advanced Placement exam preparation, the programs are highly effective and easy to use. Instant essay score reports deliver immediate diagnostic feedback on students' writing abilities – enabling them to identify their own strengths and weaknesses and motivating them to improve. Students and their parents, as well as K-12 educators, can use this state-funded INFOhio Electronic Resources, College Board and Khan Academy free of charge. Home access requires a username and password available from the school library.

*****New Students** - Students who move into the South Euclid Lyndhurst School District or those who reside in the district and have not attended the public schools must register at the Administration Building. Brush High School does not provide bus transportation for students. Once a student has been successfully enrolled, a parent or guardian will contact the guidance office at Charles F. Brush High School in order to make a scheduling appointment with the appropriate counselor. A parent/guardian must accompany the student to the scheduling appointment. Records from the former school are important in selecting courses. Students who wish to enroll for the upcoming school year are encouraged to do so after April 15, and before June 1. This will allow time to schedule a meeting with the Brush School Counselor prior to the end of the school year. Students who enroll over the summer will receive information concerning scheduling at the time of enrollment. More information about registration can be found [here](#).

New students on an IEP, please refer to the section on Special Education on page 22.




Graduation Pathway




First Earn 20.0 Credits	Second Show Competency	Third Show Readiness
<div></div> <p>4 Credits English</p> <div></div> <p>4 credits Math</p> <div></div> <p>3 Credits Social Studies</p> <div></div> <p>3 Credits Science</p> <div></div> <p>.5 Credits Physical Education</p> <div></div> <p>.5 Credit Health</p> <div></div> <p>5 Credits Additional Electives (Which includes 1 Fine Arts)</p> <div></div> <p>40 Hours Community Service-10 Hours per year</p>	<div></div> <p>Earn a “competency score” on the Algebra 1 and ELA II End of Course Test</p> <p>or</p> <div></div> <p>Two Career-Focused Activities</p> <p>or</p> <div></div> <p>College Credit Plus</p> <p>or</p> <div></div> <p>Military Enlistment</p> <p>or</p> <div></div> <p>ACT or SAT Remediation Free Score</p>	<p>Earn 2 Diploma Seals</p> <p><u>State Defined</u></p> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> </div> <p><u>Locally Defined Seals</u></p> <div> <div></div> <div></div> </div> <div> </div> <p>Students must have a minimum of 1 State Seal</p>




Diploma Seals

The state of Ohio has created 12 diploma seals for students to demonstrate academic and technical skills for college, careers, or the military. Starting with the class of 2023, students will be required to earn at least two seals, one of which must be state defined, in order to earn a diploma. Ohio Revised Code sections 3313.618 and 3313.6114.




State-Defined Diploma Seals (Must earn at least one)

Seal	Requirements	Approved Courses and Programs
Military Enlistment Seal 	Provide evidence that a student has enlisted in a branch of the U.S. Armed Forces or participated in an approved JROTC program	
Technology Seal 	A student can: <ol style="list-style-type: none"> 1. Earn a score that is at least equivalent to proficient on an appropriate Advanced Placement exam; 2. Earn a final course grade that is equivalent to a "B" or higher in an appropriate class taken through the College Credit Plus program; or 3. Complete and pass a course offered through the district or school that meets guidelines developed by the Department. Students must complete a portfolio and a culminating project. 	* Computer Science Principles * IT-1090 Computer Applications
Citizenship Seal 	A student can: <ol style="list-style-type: none"> 1. Earn a score of proficient or higher on both the American history and American government end-of-course exams; 2. Earn a final course grade equivalent to "B" or higher in American history and American government*** 3. Earn a score that is at least equivalent to proficient on appropriate Advanced Placement exam; or 4. Earn a final course grade that is equivalent to a "B" or higher in appropriate classes taken through the College Credit Plus program. 	<ul style="list-style-type: none"> • U.S. History • AP U.S. History • U.S. Government • AP U.S. Government <p>***Final course grade is defined as an average of semester grades (semester 1 and semester 2).</p>

<p>Industry Recognized Credential Seal</p> 	<p>A student can:</p> <ol style="list-style-type: none"> 1. Earn a 12-point approved industry recognized credential or group of credentials totaling 12 points in a single career field. 2. Obtaining a state-issued license for a practice in a vocation that requires an examination in one. 	<p><i>(Available through some Excel TECC programs - Allied Health, Construction Trades, Culinary Arts, ESSR, Interactive Media, LPN, Welding, and TEACH)</i></p>
<p>OhioMeansJobs-Readiness Seal</p> 	<p>Meet the requirements and criteria established for the readiness seal, including demonstration of work-readiness and professional competencies: drug free, reliability, work ethic, punctuality, discipline, teamwork, professionalism, learning agility, critical thinking, leadership, creativity, communication, digital technology, global fluency, career management.</p> <p>Students must work with at least three experienced and trusted mentors who validate the demonstration of these skills in school, work, or the community.</p> <p>Seal verification form (Completed by student and mentors)</p>	
<p><u>State Seal of Biliteracy</u></p> 	<p>Meet the requirements and criteria, including:</p> <ul style="list-style-type: none"> • Demonstrate eligibility for a high school diploma; • Demonstrate English language arts proficiency; and • Demonstrate world language proficiency <p>Proficiency is determined by scores on Ohio's required state tests for English language arts, on the English and reading sections or the ACT or SAT, and/or on <u>Advanced Placement tests for world language.</u></p>	

<p><u>College-Ready Seal</u></p> 	<p>Earn remediation-free scores on the ACT or SAT.</p> <ul style="list-style-type: none"> • ACT English - 18 or higher • Reading - 22 or higher • Mathematics - 22 or higher • SAT Evidence- Based Reading and Writing score - 480 or higher • Mathematics - 530 or higher 	<p>Students are provided with one free administration of the ACT during their junior year. The student must be considered a junior by credit.</p>
<p><u>Science Seal</u></p> 	<p>A student can:</p> <ol style="list-style-type: none"> 1. Earn a score of proficient or higher (3 or Higher) on the the Biology end-of -course exam; 2. Earn a score that is at least equivalent to proficient on appropriate Advanced Placement exam; or 3. Earn a final course grade that is equivalent to a “B” or higher in an appropriate class taken through the College Credit Plus program. 4. Earn a final course grade that is equivalent to a “B” or higher in an advanced science course. Advanced science courses contain rigorous content appropriate for grades 11 and 12. Advanced science courses include Chemistry, physics, or other physical sciences; Advanced Biology or other life sciences: Astronomy ,Physical geology or other earth and space science and AP Earth,Life or Physical Science courses*** 	<ul style="list-style-type: none"> • Biology • Honors Biology • CCP Biology • AP Biology • Environmental Science • Chemistry • Honors Chemistry • AP Chemistry • Physics • Honors Physics • AP Physics I • AP Physics II <p>*** Final course grade is defined as an average of semester grades (semester 1 and semester 2).</p>
<p><u>Honors Diploma Seal</u></p> 	<p>Earn one of five Honors Diplomas outlined below:</p> <ol style="list-style-type: none"> 1.Academic Honors Diploma; 2.Career-Tech Honors Diploma; 3.STEM Honors Diploma; 4. Arts Honors Diploma; 5.Social Science and Civic Engagement Honors diploma. 	<p>Specific course requirements for each honors diploma are outlined here</p> <p>Most require a field experience and comprehensive portfolio of the work based on the field experience.</p>

Local Defined Diploma Seals

Seals	Requirements
<p><u>Community Service Seal</u> (locally defined)</p> 	<p>Students must exceed the standard minimum requirement. Students must complete a minimum of 15 community service hours for each year enrolled at Brush High School.</p>
<p>Student Engagement Seal (Locally defined)</p> 	<ul style="list-style-type: none"> • Musical/Play Participation - successful participation, determined by the production director, in 2 school produced musicals OR successful participation, determined by the production director, in 2 school produced plays, OR successful participation , determined by the production director, in 1 school produced musical AND 1 school produced play. • Athletics Participation, including Marching Band, and/or Cheerleading - earn a Varsity Letter OR complete two seasons of athletics, including Marching Band and/or Cheerleading. Must be confirmed by the Head Coach and the Athletic Director/Marching Band Director. • Extracurricular Activities - participate in four clubs, confirmed by the club advisor OR participate in four years in the same club, confirmed by the club advisor.
<p><u>Fine and Performing Arts Seal</u> (locally defined)</p> 	<p>Music - successful completion of 3 yearlong performing ensembles. A performing ensemble is defined as any graded musical ensemble which performs in concerts throughout the school year.</p> <p>Visual Art - successful completion of 3 yearlong courses OR successful completion of 6 semester length courses OR successful completion of 4 semester length courses provided at least two of those courses is a secondary level course.</p> <p>Combination - students must earn 3 full credits through a combination of any of the above courses/ensembles</p>

Ohio's High School Graduation Requirements

Classes of 2023 and Beyond

It's Your **Future.** Get **Ready.**

Before you know it, you'll be receiving your high school diploma. Ohio is giving you new ways to show the world what you can do with it.

As a student entering ninth grade on or after **July 1, 2019**, Ohio's new high school graduation requirements give you more flexibility to choose a graduation pathway that builds on your strengths and passions – one that ensures you are ready for your next steps and excited about the future.

First, cover the basics

You must earn a minimum total of 20 credits in specified subjects and take your required tests. Then, decide how you will round out your diploma requirements.

English language arts	4 credits
Health	½ credit
Mathematics	4 credits
Physical education	½ credit
Science	3 credits
Social studies	3 credits
Electives	5 credits

Other Requirements

You also must receive instruction in economics and financial literacy and complete at least two semesters of fine arts. Your district may require more than 20 credits to graduate.

Second, show competency

Earn a passing score on Ohio's high school Algebra I and English II tests. Students who do not pass the test will be offered additional support and must retake the test at least once.

Is testing not your strength? After you have taken your tests, there are three additional ways to show competency!

Option 1.

Demonstrate Two Career-Focused Activities*:

Foundational

Proficient scores on WebXams
A 12-point industry credential
A pre-apprenticeship or acceptance into an approved apprenticeship program

Supporting

Work-based learning
Earn the required score on WorkKeys Earn the OhioMeansJobs Readiness Seal

*At least one of the two must be a Foundational skill

Option 2.

Enlist in the Military

Show evidence that you have signed a contract to enter a branch of the U.S. armed services upon graduation.

Option 3.

Complete College Coursework

Earn credit for one college-level math and/or college-level English course through Ohio's free College Credit Plus program.

Third: Show Readiness

Earn two of the following diploma seals, choosing those that line up with your goals and interests. These seals give you the chance to determine academic, technical and professional skill knowledge that align to your passions, interests and planned next steps after high school.

At least one of the two must be Ohio-designed

- ☐ **OhioMeansJob Readiness Seal (Ohio)**
- ☐ **Industry-Recognized Credential Seal (Ohio)**
- ☐ **College Ready Seal (Ohio)**
- ☐ **Military Enlistment Seal (Ohio)**
- ☐ **Citizenship Seal (Ohio)**
- ☐ **Science Seal (Ohio)**
- ☐ **Honors Diploma Seal (Ohio)**
- ☐ **Seal of Biliteracy Seal (Ohio)**
- ☐ **Technology Seal (Ohio)**
- ☐ **Community Service Seal (Local)**
- ☐ **Fine and Performing Arts Seal (Local)**
- ☐ **Student Engagement Seal (Ohio)**

Want to learn more? Contact your school counselor or visit education.ohio.gov/graduation.

Course Option Summary Brush High School 2022/2023

Consumer & Computer Technical Education

Introduction to Business	1/2 Credit	Career Connections I	1/2 Credit
Social Media in Context	1/2 Credit	Career Connections II	1/2 Credit
Financial Literacy	1/2 Credit	IT-1090: Computer App.	1 Credit
(3 semester CCP Course)			
ACT Prep	1/2 Credit		

Fine Arts

AP Studio Art/ Photography	1 Credit	Digital Photoshop	1/2 Credit
AP Studio Art/Drawing	1 Credit	Graphic Design Tools	1/2 Credit
Drawing	1/2 Credit	Art Foundations	1/2 Credit
Painting	1/2 Credit	Graphic Design	1/2 Credit
Adv. Drawing & Painting	1 Credit	Photography I	1/2 Credit
Ceramics	1/2 Credit	Photography II	1/2 Credit
Adv. Ceramics	1 Credit	3D Modeling	1/2 Credit
Ceramics II	1/2 Credit		

Health & Physical Education (*Health Credit/Health Elective) (**Elective)

(#Counts toward PE Credit when both I & 2 Completed)

**Sports Leadership	1/2 Credit	*Fitness for Life	1/2 Credit
Physical Education I	1/4 Credit	#Weight Training & Fitness I	1/4 Credit
Physical Education II	1/4 Credit	#Weight Training & Fitness II	1/4 Credit
Health Education	1/2 Credit	#ARC Built I	1/4 Credit
*Sports & Exercise Science	1/2 Credit	#ARC Built II	1/4 Credit
*Personal Wellness	1/2 Credit		

Language Arts

English 9	1 Credit	English 12(Modern Lit. & Comp.)	1 Credit
Honors English 9	1 Credit	English 12 (Cultural Influence)	1 Credit
English 10	1 Credit	English 12 (British Lit.)	1 Credit
Honors English 10	1 Credit	AP English Lit. & Composition	1 Credit
English 11	1 Credit		
(American Literature/Writing and Research)			
English 11	1 Credit		
Honors English 11	1 Credit		
Integrated English 11	1 Credit		

Language Arts Elective Courses

Beginning Speech	1/2 Credit	Introduction to Women's Literature	1/2 Credit
Advanced Speech	1/2 Credit	Science Fiction & Fantasy Literature	1/2 Credit
Theater I & Improv	1/2 Credit	Comics & Graphic Novels as Literature I	1/2 Credit
Theater II & Acting	1/2 Credit	Comics & Graphic Novels as Literature II	1/2 Credit
Writing for Success	1/2 Credit	Yearbook	1 Credit
Intro to Creative Writing	1/2 Credit		

Mathematics

Algebra 1	1 Credit	Honors Algebra 2 w/Trig	1 Credit
Geometry	1 Credit	Honors Geometry	1 Credit
Adv. Algebra 2	1 Credit	Honors Analysis	1 Credit
Algebra 2	1 Credit	AP Calc AB	1 Credit
FST	1 Credit	AP Calc BC	1 Credit
Pre-Calculus	1 Credit	AP Stats	1 Credit
Honors Algebra 1	1 Credit	Calculus	1 Credit
Discrete Math	1 Credit	Mathematical Modeling & Reasoning	1 Credit

Music

Band	1 Credit	Chorale	1 Credit
Orchestra	1 Credit	Soundsation Show Choir	1 Credit
Chamber Orchestra	1/2 Credit	Music Theory I	1/2 Credit
Jazz Ensemble	1 Credit	Music Theory II	1/2 Credit
Concert Choir	1 Credit	Music Technology I	1/2 Credit
Music Technology II	1/2 Credit		

Science

Physical & Earth Science	1 Credit	AP Physics 1	1 Credit
Biology	1 Credit	AP Physics 2	1 Credit
Chemistry	1 Credit	Anatomy & Physiology	1 Credit
Physics	1 Credit	Honors Biology	1 Credit
Environmental Science	1 Credit	Honors Chemistry	1 Credit
AP Biology	1 Credit	Honors Physics	1 Credit
AP Chemistry	1 Credit	Environmental Ecology & Evolution	1 Credit
STEM: Robotics 1	1/2 Credit	STEM: Intro. To Engineering	1/2 Credit
STEM: Applied Engineering	1/2 Credit	Computer Science Principles	1 Credit

Social Studies

World Influences on the West	1 Credit	Honors World History	1 Credit
U.S. History	1 Credit	AP U.S. History	1 Credit
African/American History I	1/2 Credit	African American History II	1/2 Credit
Government & Society	1 Credit	AP Euro History	1 Credit
AP Government/Politics	1 Credit	Human Relations	1/2 Credit
Psychology	1/2 Credit	AP Psychology	1 Credit
Topical Issues	1/2 Credit	The Other America	1/2 Credit
Social Justice & Anti-Racism	1/2 Credit	Financial Literacy	1/2 Credit

World Languages

American Sign Language (ASL1)	1 Credit	American Sign Language (ASL2)	1 Credit
French I	1 Credit	Spanish I	1 Credit
French II	1 Credit	Spanish II	1 Credit
French III	1 Credit	Spanish III	1 Credit
French IV	1 Credit	Spanish IV	1 Credit
French V (Honors)	1 Credit	Spanish V (Honors)	1 Credit

Recommended Curriculum by Grade

(R) = Required class for that grade level

(RS) = Required class to graduate; suggested for this grade level but may be taken at another time

*Colleges may require a world language for all majors.

*Students on the Career Tech Pathway for junior and senior year will earn three elective credits in addition to taking core classes required for graduation.

9th Grade

10th Grade

<u>English (R)</u>	<u>1 credit</u>
<u>*Math (R)</u>	<u>1 credit</u>
<u>Physical Science</u>	<u>1 credit</u>
<u>World History (R)</u>	<u>1 credit</u>
<u>Physical Education I/II (RS)</u>	<u>½ credit</u>
<u>Health (RS)</u>	<u>½ credit</u>
<u>World Language / Other Electives</u>	<u>1 credit</u>
<u>Career Connections I</u>	<u>½ credit</u>

<u>English (R)</u>	<u>1 credit</u>
<u>*Math (R)</u>	<u>1 credit</u>
<u>Biology (R)</u>	<u>1 credit</u>
<u>U.S. History (R)</u>	<u>1 credit</u>
<u>World Language / Other Electives</u>	<u>1 credit</u>
<u>Career Connections II</u>	<u>½ credit</u>

11th Grade

12th Grade

<u>English (R)</u>	<u>1 credit</u>
<u>*Math (R)</u>	<u>1 credit</u>
<u>Advanced Science (R)</u>	<u>1 credit</u>
<u>World Language</u>	<u>1 credit</u>
<u>U.S. Government (RS)</u>	<u>½ credit</u>
<u>Financial Literacy (RS)/</u>	<u>½ credit</u>
<u>Career Connections III</u>	<u>½ credit</u>

<u>English (R)</u>	<u>1 credit</u>
<u>*Math(R)</u>	<u>1 credit</u>
<u>Advanced Science</u>	<u>1 credit</u>
<u>Career Connections IV</u>	<u>½ credit</u>

BRUSH HIGH SCHOOL SCHEDULE CHANGE POLICY

The Course Description book is the student's and parent's guide for making their elective course selections. Teachers will be determining the placement for students in next year's Core Classes. The final copy of the student's forecasting sheet is to be signed by a parent/guardian and returned to the student's school counselor. During the time between forecasting and the end of the fourth marking period, students and parents may discuss and request changes in these courses. **NO CHANGES WILL BE MADE AFTER MAY 20, 2022.**

The following regulations will be followed at Brush High School

1. Due to commitments for staff employment/assignments, and ordering of textbooks and other supplies, no schedule changes can be made after the last school day except for the following reasons:
 - a. Mechanical error changes.
 - b. Changes necessitated by failures.
 - c. Class balancing (guidance and administrative).
 - d. Subject-level changes (teacher recommendation).
 - e. Addition of a class in lieu of class needed in the same period.
 - f. Administrative (teacher/guidance) recommendation.
2. If a student wishes to appeal the schedule change policy, please follow the building guidelines.
3. **Dropping Classes:** While we hope students have scheduled courses that make sense for academic and personal growth goals, we recognize the factors outside of a student's control in completing the course may occur after the class begins; therefore, the drop policy outlined in the items below will encourage students to talk to their teachers, reach out for help, if needed, and/or consult their families and/or school counselors for a source of guidance, when considering a drop of class from their schedule.
 - a. **Drop Policy Full Year Courses-** For classes scheduled for the full year, students will be allowed to drop a class in the first quarter without any penalty; a drop of a class in the second quarter would generate a grade on the transcript of Withdraw (D) or (WD)*; and, during the third or fourth quarters, a drop of a class would generate a grade on a transcript of Withdraw (F) or (WF)
 - b. **Drop Policy Semester- Length Classes-** For classes scheduled in one semester, a drop without a penalty will be allowable through the first 25% of the course or the interim period; a drop that takes place during the second 25% of the course would lead to a Withdraw (D) or (WD)* on the transcript, and a drop that takes place in the second half or the second 50% of the semester would lead to a Withdraw (F) or (WF) on the transcript.

*NOTE: A mark of WD on the transcript does not affect the overall GPA.

4. **Adding Classes:** The need to add a class may arise when changes to a schedule are made or a student makes a decision about future goals that would require a schedule change (e.g., interested in attending another school program or postsecondary interest, so he/she/they change electives). The following items outline the district "ADD" policy:
 - a. **ADD POLICY FULL YEAR CLASSES:** Students may consult their counselors to add class(es) up to 10 school days of the school year.
 - b. **ADD POLICY SEMESTER-LENGTH COURSES:** Students may consult their counselors to add classes up to 5 school days of the semester (includes both the fall and spring semesters).

INCOMPLETES

Incompletes are issued only in extenuating circumstances determined by Administration. The teacher will issue a grade for the work completed; it is the responsibility of the teacher to change the grade as needed for the grading period.

SEL CREDIT FLEXIBILITY FOR STUDENTS IN GRADES 8 -12

Students may earn credits through:

- The completion of coursework;
- Testing out of, or demonstrating mastery of, course content or;
- Pursuing one or more educational options in accordance with the District's Credit Flexibility Plan.

Issuance of credit will be determined locally. Schools and students who choose educational options will pre-identify and agree on the learning outcomes. Credits earned through this alternative means will be reflected on students' transcripts in the same way as traditional credits earned via seat time. Please see our SEL website for more information.

PASS/FAIL OPTION

If a course is taken pass/fail, the course is not figured into the student's grade point average. It is at the SEL Administrator's discretionary decision to determine or exercise this option.

CLASS RANK

Class rank will be eliminated starting with the Class of 2022. Class Rank for 2022 and beyond will transition to the Latin Honor Cum Laude System: • Summa Cum Laude, "With Highest Praise," 4.0 GPA and above • Magna Cum Laude, "With Great Praise," 3.75 -3.99 GPA • Cum Laude, "With Praise," 3.50-3.74 GPA

Grade point values for all Honors classes are weighted as follows: A=4.5,

A-=4.125, B+=3.75, B=3.75, B=3.375, B-=3.0, C=2.625, C=2.25, C-=1.875, D+=1.3, D=1.0, D-=0.7, F=0.0

Grade point values for all Advanced Placement classes are weighted as follows: A=5.0, A-=4.59, B+=4.17, B=3.75, B-=3.34, C+=2.92, C=2.5, C-=2.08, D+=1.3, D=1.0, D-=0.7, F=0.0

GRADE POINT AVERAGE

The Grade Point Average is calculated from the semester grades of all courses except those which are Pass/Fail Courses, i.e., Study Skills. In calculating the GPA, A= 4 points, A-=3.67, B+=3.33, B=3.0 points, B-= 2.67, C+ = 2.33 points, C= 2.0 points, C-=1.67, D+=1.33, D = 1 point, and F= 0 points. Advanced Placement and Honors grades are awarded one (1) additional point based on a semester grade of C or higher. Points earned for specific subjects will vary depending on the credit granted for the course.

GRADING SCALE				GRADE
				POINTS
A	93	To	100	4.00
A-	90	To	92	3.67
B+	87	To	89	3.33
B	83	To	86	3.0
B-	80	To	82	2.67
C+	77	To	79	2.33
C	73	To	76	2.0
C-	70	To	72	1.67
D+	67	To	69	1.33
D	60	To	66	1.0
F	00	To	59	0

GRADE POINT AVERAGE SCALE

	Standard	Honors	AP/CCP
A	4.0	4.5	5.0
A-	3.67	4.17	4.67
B+	3.33	3.83	4.33
B	3.0	3.5	4.0
B-	2.67	3.17	3.67
C+	2.33	2.83	3.33
C	2.0	2.5	3.0
C-	1.67	2.17	2.67
D+	1.33	1.84	2.33
D	1.0	1.5	2.0

EDUCATIONAL OPTIONS

Students are directed to a particular program based upon their past academic performance and their goals after high school. Students and parents must carefully select courses to ensure that enough credits required for graduation are earned in the program that will prepare the student to meet specific goals.

- **AP/Honors Courses** - Students enrolling in Honors and/or AP classes should meet certain criteria. Be sure to note each department's requirements and prerequisites for entrance as stated in each department's section of this Course Description Book. Please note, students enrolled in an AP course must take the AP exam associated with the course. See page 23 for more information.
- **College Credit Plus (CCP)** - CCP requires that the student must be enrolled in both college and high school, AND the student will earn college and high school credit upon completion of the courses. The credits will be reflected on their final high school transcript. If interested in applying for CCP, please complete the [Intent to Participate form](#). For more information, please refer to pages 23-24.
- **Mayfield Excel TECC** - Students apply to a technical program through Mayfield Excel Technical Education Career Consortium in December of their sophomore year. **Information regarding Mayfield Excel TECC can be found by accessing the [Excel TECC 2022-2023 High School Catalog](#).** For more information, see pages 24-25
- **English Language Learners (ELL)** - The English Language Learners Program is designed to meet the needs of students who are non-native speakers of English. All potential ESL students are tested by means of a variety of methods to determine their English proficiency level. Students are placed into all of their academic courses based on their educational history after discussion with the district ESL teacher, the Guidance Department, and parents/guardians.
- **Foreign Exchange Program** - families interested in hosting a foreign exchange student or having your student participate in a study abroad program, please refer to page 25.
- **Gifted Education** - Students may qualify for Gifted Services in specific academic areas such as Reading/Writing or Math. Students who qualify for this program may be enrolled in honors and/or AP classes in grades 9-12. Students who are enrolled in Accelerated Courses and have been identified as Gifted in that content area will receive a Written Education Plan (WEP). The WEP serves as State level documentation that services are being provided via Accelerated Courses offered at Brush High School. Students may also qualify for a WAP (Written Acceleration Plan).
- **Special Education** - Brush High School is in compliance with federal and state laws which govern special education. The South Euclid Lyndhurst City Schools offer a continuum of services based on the individual needs of the student. Decisions regarding the IEP process occur in collaboration with the parent and the child's educational team. Students new to the district with an IEP must participate in a scheduling conference with a parent/guardian, administrator, counselor, and special education representative prior to receiving a schedule. Please note upon transfer to Brush High School, we need documentation from the previous school district that the student is on an IEP (including the IEP, ETR, transcripts, reports, etc).

ADVANCED PLACEMENT PROGRAM and EXAMINATIONS

Advanced Placement courses are offered in Biology, Chemistry, Physics, English, American Government, U.S. History, European History, Psychology, Calculus AB, Calculus BC, Statistics, Studio Art & Drawing and Studio Art Photography. AP courses require students to work at a college freshman level. Because of the academic rigor, AP courses are assigned a weighted grade contingent upon a semester grade of C or higher. Scores on the exam, deemed acceptable by colleges, enable students to earn college credit.

See each department section of this Course Description book for course descriptions, prerequisites, and admission requirements.

Students and parents should be sensitive to the demanding nature of Advanced Placement courses. Reading assignments for the classes are extensive. Students will be involved in college-level activities, particularly in writing and test-taking skills. Advanced Placement courses emphasize the student's self-motivation, study skills, and ability to self-direct his or her own learning. Students enrolled in Advanced Placement course(s) are **REQUIRED** to take Advanced Placement Exam(s). To secure accurate numbers for ordering exams, students must identify and commit to exam(s) they will take prior to January 10th of each school year. Students who fail to take the exam(s) will lose the weighted credit associated with the course in which they did not test. South Euclid Lyndhurst Schools provides a **"buy one get one"** policy for students taking AP exams for students enrolled in multiple AP courses. This means that for every AP exam purchased by a student, they receive one exam at no cost. (Note: fee waivers/reductions are available for students who meet College Board and Federal criteria).

See the following chart:

One (1)Advanced Placement Course	Required to take ONE (1) Advanced Placement Exam: Student Pay for (1)Exam
Two (2)Advanced Placement Courses	Required to take TWO (2) Advanced Placement Exams: Student Pay for(1)Exam/BHS 1 Exam free
Three (3)Advanced Placement Courses	Required to take THREE (3) Advanced Placement Exams: Student Pay for (2)Exams/BHS 1 Exam free
Four (4) Advanced Placement Courses	Required to take FOUR (4) Advanced Placement Exams: Student Pay for (2)Exams/BHS 2 Exams free

COLLEGE CREDIT PLUS

Courses aligned with CCP must:

- Be the same as those offered on the College Campus
- Be nonsectarian and non-remedial
- Apply toward a degree or professional certificate
- Student must provide own transportation
- All courses added or dropped by the CCP student **MUST** have approval by the CCP Counselor

Any CCP Student who fails a course or drops after the designated deadline will be financially responsible for the course. For information on College Credit Plus click [here](#).

- You may be able to take some College Credit Plus courses at your high school. You may also travel to the college where you have been admitted or enroll in one or more online courses offered by that college. Currently, only Ohio colleges are eligible to offer College Credit Plus courses.

Graduation - Senior students who are enrolled at a college where the academic term ends after high school graduation ceremony is over will be permitted to participate in graduation if all requirements for graduation have been completed and/or the student has a passing grade in the college course(s) in which he/she is enrolled.

Academic Eligibility - For those students electing the College Credit Plus Program, their academic/athletic eligibility will continue to be based upon the grading period used by the high school.

The principal (or designee) of those electing the College Credit Plus Program shall contact participating College Credit Plus institutions for the purpose of ascertaining grades in courses that are being taken at those institutions. If grades can be obtained, they shall be used to determine whether or not a particular student is passing five (5) one-credit courses or the equivalent for that preceding grading period. If grades cannot be obtained, the student shall receive an “Incomplete” until such time that a grade can be determined. The “Incomplete” shall be used in determining the student’s eligibility for the next grading period (i.e., an “incomplete” is considered a failing grade).

Board Policy - When a student is expelled from the District, the Superintendent shall send written notice to any college in which the expelled student is enrolled under the College Credit Plus Program at the time the expulsion is imposed. The written notice shall indicate the date the expulsion is scheduled to expire. If the expulsion is extended, the Superintendent shall notify the college of the extension.

MAYFIELD EXCEL TECC

The Excel Technical Education Career Consortium programs are designed to provide expanded and additional educational options for all students. Excel TECC students represent a new wave of career technical education where schools are sending their best and brightest students to Excel TECC’s various programs. There are 23 unique career technical programs spread over numerous career pathways and the results speak for themselves. Excel TECC has been recognized as the premier career technical education compact in the state of Ohio by Achieve. Over the past five years, students who have graduated from Excel TECC programs have earned over 50 million dollars in scholarship monies to colleges and universities. In fact, Excel TECC programs have over 900 college credits available to them through tech prep agreements and career technical credit transfer. Through their memberships in state Career Technical Student Organizations, Excel TECC students competed and won state championships and qualified for national competitions. Finally, over 95% of Excel TECC graduates go on to college, are immediately employed or enter the military. Please refer to the [catalog](#) to find out which is the best designed program for your ultimate success beyond high school.

The South Euclid Lyndhurst School District belongs to a ten-district consortium known as Excel TECC (Technical Education Career Consortium). Excel TECC programs are designed to provide expanded options to all students. These include college preparatory, tech prep, school-to-work, and other educational learning opportunities. Through the close cooperation of school personnel, parents, and business and industry, students have exciting choices to grow, learn, and prepare themselves for the future. Technical program offerings are as follows:

For detailed descriptions of the programs below, please click [here](#) for the Excel TECC 2022-2023 High School Catalog

Allied Health	Auto Collision	Automotive Technology
Business Academy	CADD Engineering Technology	Construction Trades
Cosmetology	Culinary Arts	Digital Arts & Technology
Environmental Education	Exercise Science & Sports Rehabilitation	Fire/EMS Training Academy
Interactive Media	Intervention Programs	ITP - Information Technology & Programming
Licensed Practical Nursing	Marketing (Seniors ONLY)	Medical Assisting
Medical Technologies	Performing Arts Academy	Studio Art & Design
TEACH-Teacher Education And Children's Health	Welding Technologies	

FOREIGN EXCHANGE

Brush Student Participation:

Students who would like to consider a foreign exchange/study abroad program must make their request through their school counselor. This request must be made at least one semester in advance of the start date for the program. It is expected that students considering this type of option have a strong academic history and a GPA of 3.00. The student and parent must meet with the school counselor to discuss these plans.

Students will need to supply the following information: name of the studies abroad program, name and phone number/email address of local contact person, name of school to be attending, name and email address of school contact person, list of courses to be taken, written plan of how this experience will impact graduation and how any deficits will be made up. When this information is complete, it must be submitted to the Principal for approval. Brush High School is under no obligation to accept credits from a study abroad/foreign exchange program unless the proper procedures have been followed and permission granted prior to the student leaving to participate in the program.

Once the student has returned from the program, it is the student's responsibility to ensure that a transcript of grades and proof of attendance is sent from the school.

All students must carry a minimum of five and a half (5.5) credits per year.

Hosting a Foreign Exchange Student: *(The South Euclid Lyndhurst School District can NOT be involved in finding families for foreign exchange students who may need a change in living situations.)*

The South Euclid Lyndhurst Schools have established the following guidelines for families who are interested in hosting a foreign exchange student. These guidelines have been established in order to ensure that the foreign exchange student has the necessary skills and support in order to have a positive experience.

- ✓ Foreign exchange students must reside with a current Brush High School family.
- ✓ Foreign exchange students must be enrolled prior to August 15.
- ✓ The sponsoring agency must provide proof of English speaking skills and Literacy, and a formal assessment. An interview may be required.
- ✓ The sponsoring agency must have a local (Cleveland Area) representative available as needed.
- ✓ The sponsoring agency must provide academic support if needed.
- ✓ Foreign exchange students must be taking an academic schedule of courses.

AWARDS

Comparison of Diplomas with Honors Criteria

Students need to fulfill all but one criterion for any of the following Diplomas with Honors.

Depending on whether a student is completing a college preparatory or career-technical curriculum, honors diploma requirements differ slightly.

Please refer to the Ohio Department of Education Grid that can be found on the ODE Website at:

<http://education.ohio.gov/getattachment/Topics/Ohio-Graduation-Requirements/Graduation-Requirements-2014-2017/Criteria-for-Diploma-with-Honors/Honors-Diploma-Revised-Grid.pdf.aspx>

Writing sections of either standardized test (ACT/SAT) should not be included in the calculation of this score for the Honors Diploma. Diploma with Honors requirements pre-suppose completion of all high school diploma requirements in Ohio Revised Code including:

1/2 unit Physical Education**	1/2 unit in American History
1/2 unit Health	1/2 unit in Government

BRUSH HIGH SCHOOL ESTABLISHED THE FOLLOWING GUIDELINES:

Honor Roll/Merit Roll will be computed for each quarter.

The following procedures will be utilized in determining Honor Roll/Merit Roll status:

- A student will achieve **Honor Roll** status by earning a 3.5 G.P.A. or higher for that quarter.
- A **Merit Roll** status is achieved by earning a 3.0 - 3.49 G.P.A. for that quarter.

NATIONAL HONOR SOCIETY

The National Honor Society is a service organization founded to bestow recognition on junior and senior students who have demonstrated exemplary accomplishments in the areas of scholarship, leadership, character, and service. Students do not apply for membership but are invited to apply based on having a cumulative G.P.A. of 3.5 or higher by the end of the second semester of the sophomore year (for juniors) or junior year (for seniors). New students to the school need to be in attendance for one semester before qualifying for National Honor Society.

Students who have met the G.P.A. requirements are notified by mail that they are eligible to become candidates for membership. An informational meeting for all candidates is held in order to outline the application process.

NHS guidelines state that membership is a privilege and not a right. Students are informed prior to candidacy that the NHS Faculty Advisory Committee is prohibited from sharing any information regarding the selection process. For the membership process, please see the current NHS Advisors.

1. Candidates must complete and submit an application of activities and service hours by the deadline date on application. A minimum of 40 hours of service for juniors and 60 hours of documented service for seniors is required before application due date.
2. The NHS faculty advisor receives a document which informs him/her of each student's G.P.A., Co-curricular Activities, Leadership Positions, Service Activities and Community Activities.
3. The NHS Faculty Advisory Committee then considers the strength of each Candidate. The Committee then selects the membership.
4. Candidates are informed in writing of their membership status immediately following the NHS Faculty Advisory Committee meeting which is held in the fall.

PRESIDENTS' EDUCATIONAL AWARD FOR EXCELLENCE

This award was established to recognize and reward students for achieving educational excellence by the President of the United States of America. This award is received at the end of each school year using the following criteria below:

- **Grade Point Average**
Students are to earn a grade point average of 90 on a 100 point scale (an A- on a letter scale or a 3.5 on a 4.0 scale.) Computing the G.P.A. includes grade 9 through the fall semester of the 12th grade.
- **Standardized Achievement Test Scores**
Students must achieve in the 85th percentile or higher in math or reading. (High school seniors may use college admissions examinations such as the SAT or ACT).

ACADEMIC ELIGIBILITY

(Extra-Curricular Activity/Interscholastic-Athletic Eligibility Policy)

At Brush High School, students are encouraged to participate in the many extra-curricular and sports activities that are available. Academic success in high school is often enhanced when a student reaches out beyond classroom activities and becomes involved in the full high school experience. In order for a student to ensure the opportunity to remain an active participant in the extra-curricular and or athletics activities, he/she must maintain a certain level of academic achievement. If a student's grades go below a 2.0 standard of eligibility, he/she may be placed on probation or eliminated from the extra-curricular and/or sports activity altogether.

The South Euclid Lyndhurst Board of Education shall determine the academic standards of eligibility to be met by all students participating in extra-curricular activities/interscholastic athletic programs. In addition to the eligibility requirements established by the South Euclid Lyndhurst Board of Education, any student participating in interscholastic athletics must also meet the eligibility requirements established by The Ohio High School Athletic Association.

The Ohio High School Athletic Association academic eligibility standards are as follows:

During the preceding grading period, the student must have received passing grades in a minimum of five one-credit courses or the equivalent, which count toward graduation.

The South Euclid Lyndhurst Board of Education academic eligibility standards are as follows:

1. Must maintain at least a 2.0 grade point average for the grading period preceding the grading period in which she/he wishes to participate.
2. Students who fall between 1.00 and 1.99 may participate if they agree to participate in a Probationary Eligibility Agreement. If they are below a 1.00 grade point average, the student is ineligible until the next grading period, i.e., until the next nine-week grading period is up.

Probationary eligibility consists of:

Attending two (2) study table sessions a week, for a minimum of 40 minutes each; the study table sessions will be held Monday through Friday, from 7:30 a.m. to 8:00 a.m. in the library. The study tables will be monitored by a study hall monitor. On Friday, or the last day of the week, the study hall monitor will file a report of attendance with the athletic coordinator/activity advisor at the high school. The athletic coordinator/activity advisor will publish a report on Monday of any student on Probationary Eligibility who is declared ineligible for the week.

If the student completes all requirements of probationary eligibility, the student is eligible to participate in extracurricular activities/interscholastic athletics. If the student does not complete all requirements, the student will be declared ineligible for a one-week period until the next week's study tables are completed. At that time, the student can regain his/her eligibility or continue to be ineligible. The student is ineligible to participate in contests or activities during that one-week period.

If a student is declared ineligible for two weeks of a nine-week grading period, the student will not be eligible to participate in contests or practices during the second (2nd) week. If a student is declared ineligible for a third (3rd) week in a nine-week grading period he/she will be declared ineligible for the remainder of the nine-week period.

THE INTER-SCHOLASTIC SPORTS OFFERED AND AFFECTED BY THIS POLICY ARE LISTED BELOW:

FALL	WINTER	SPRING
Boys' Cross Country	Boys' Basketball	Baseball
Boys' Golf	Girls' Basketball	Boys' Tennis
Football	Boys' Swimming	Boys' Track
Boys' Soccer	Girls' Swimming	Girls' Track
Girls' Cross Country	Wrestling	Softball
Girls' Golf	Hockey	
Girls' Soccer	Bowling	
Girls' Tennis		
Volleyball		

EXTRA CURRICULAR CLUBS AND ACTIVITIES OFFERED

Academic Decathlon	Freshman Class Officers	Girls Who Code
Academic Team	Sophomore Class Officers	Key Club
Arcettes	Junior Class Officers	Level Up
AVTV Club	Senior Class Officers	Makerspace
Book Club	Debate Team	MAC 2.0
C.A.R.E	Drama Club	Peer Tutors
Cheerleading	Dungeons and Dragons	Robotics Club
Chess Club	Environmental Club	Science Olympiad
Christian Fellowship Club	Fall Play	Spring Musical
Creative Writing	French Club	Student Congress
Yearbook Club	Gay/Straight Alliance	

NAIA

National Association of Intercollegiate Athletics

Eligibility Center FAQs

What is the NAIA Eligibility Center?

The [NAIA Eligibility Center](#) is responsible for determining the NAIA eligibility of first-time athletes. Any student playing NAIA sports for the first time must meet the eligibility requirements. Students must have their eligibility determined by the NAIA Eligibility Center, and all NAIA schools are bound by the center's decisions.

Who needs to register?

Every student interested in playing sports at NAIA colleges for the first time in 2018-2019 or any year after that needs to register and have their eligibility to play determined. This applies to:

- High School Seniors
- Current NAIA students who will play sports for the first time at an NAIA school
- Transfers from two-year colleges
- Transfers from four-year colleges

What happens when I register?

You'll create a personal profile with the basic facts about your academic history and sports participation to date.

You'll also have the opportunity to provide more in-depth information about your experience and accomplishments, plus the type of college you have in mind – size, location, areas of study, extracurricular activities. You can choose to have your profile sent directly to the schools – coaches and admissions offices – you choose. It's a personal connection and you're in control.

Do I need to register if I'm registering with the NCAA Eligibility Center?

Yes, determining if you meet the requirements for NAIA eligibility is separate from the NCAA eligibility certification. The NAIA and NCAA are two separate associations with two different sets of rules and certification processes.

What are the costs?

Registration for students from the U.S. is \$90. Registration for international students is US \$150. This is a one-time, non-refundable registration fee, and all the services of the NAIA Eligibility Center are included.

NCAA ELIGIBILITY INFORMATION

WHAT IS THE NCAA?

The National Collegiate Athletic Association was established in 1906 and serves as the athletics governing body for more than 1,280 colleges, universities, conferences and organizations. The national office is in Indianapolis, but the member colleges and universities develop the rules and guidelines for athletics eligibility and athletics competition for each of the three NCAA divisions. The NCAA is committed to the student-athlete and to governing competition in a fair, safe, inclusive and sportsmanlike manner.

WHAT IS THE NCAA ELIGIBILITY CENTER ?

[The NCAA Eligibility Center](#) works with the NCAA to determine a student's eligibility for athletic participation in his or her first year of college enrollment. Students who want to participate in college sports at the Division I or Division II level during their first year of enrollment in college MUST register with the eligibility center. Students who plan on participating at the Division III level, DO NOT have to register with the eligibility center. The eligibility center follows NCAA bylaws and regulations in analyzing and processing a student's high school academic records, ACT or SAT scores, and key information about amateur participation, to determine the student's eligibility. Please refer to the above website for the [NCAA Eligibility Center Worksheet](#) to compute core GPA.

NCAA Division 1 College-Bound Student-Athletes – Eligibility Standards

The initial-eligibility standards for NCAA Division I college-bound student-athletes are changing. College-bound student-athletes first entering a Division I college or university on or after August 1, 2018 need to meet new academic rules in order to receive athletics aid (scholarship), practice or compete during their first year.

First, here are the terms you need to know:

Full Qualifier: A college-bound student-athlete may receive athletics aid (scholarship), and may practice and compete in the first year of enrollment at the Division I college or university.

Academic Redshirt: A college-bound student-athlete may receive athletics aid (scholarship) in the first year of enrollment and may practice in the first regular academic team (semester or quarter) but may NOT compete in the first year of enrollment. After the first term is complete, the college-bound student-athlete must be academically successful at his/her college or university to continue to practice for the rest of the year.

Nonqualifier: A college-bound student-athlete cannot receive athletics aid (scholarship), cannot practice and cannot compete in the first year of enrollment.

Here are the new requirements:

Full Qualifier must:

1. Complete **16 core courses** (same distribution as in the past)
 - a. Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school.
 - i. Seven of the 10 core courses must be English, math or science.
2. Have a minimum core-course GPA of 2.30;
 - a. Grades earned in the 10 required courses required before the senior year are “locked in” for purposes of GPA calculation.
 - i. A repeat of one of the “locked in” courses will not be used to improve the GPA if taken after the seventh semester begins.
3. Meet the competition sliding scale requirements of GPA and ACT/SAT score (this is a new scale with increased GPA/test score requirements); and
4. I Graduated from High school.

Academic Redshirt must:

1. Complete 16 core courses (same distribution as in the past)
2. Have a minimum core-course GPA of 2.000;
3. Meet the academic redshirt sliding scale requirements of GPA and ACT/SAT score;
4. I Graduated from High school.

Nonqualifier is a college-bound student-athlete who fails to meet the standards for a qualifier or for an academic red-shirt. Please go to www.ncaa.org for new rules and sliding scale.



Charles F. Brush High School Course of Studies

The following page contains a complete listing of the Charles F. Brush High School Courses by department. This course of studies for the entire four (4) years is presented to assist students and parents in planning course selections in the proper sequence. The Elective Request Sheet, indicates the grade level in which a particular course may be taken. Credit will be granted only once for the successful completion of a course.

Courses are offered only if adequate enrollment is achieved. The student's course of study should not be planned without careful consultation with the Guidance Department. Each department section begins with a listing of all of the courses offered by that department. Subsequent pages include descriptions of the courses we offer. Thorough program planning demands an awareness of graduation requirements and course prerequisites, as well as knowledge of the purpose and content of all courses of interest to the student.

Students are recommended to a particular course of study based upon two factors, 1) their past academic performance, and 2) their goals after high school. Students and parents must carefully select courses to ensure that enough graduation credits are earned in the category that will prepare him/her to meet specific goals.

If you have any questions or concerns regarding the course selection for your student, please do not hesitate to contact the school counselor for your student's grade level.

CONSUMER & COMPUTER TECHNICAL EDUCATION

COURSE NUMBER	COURSE	PREREQUISITE	GRADE LEVEL	LENGTH OF COURSE	CREDIT
7100	Introduction to Business	None	9-10-11	One Semester	.50
7130	Social Media In Context	None	9-10-11-12	One Semester	.50
7141	*Financial Literacy	None	11-12	One Semester	.50
7144	*Career Connections I	None	9-10	One Semester	.50
7145	*Career Connections II	Career Connections I	11-12	One Semester	.50
7146	IT -1090 Computer Applications	None	9-10	One Semester	1

*Required course

Introduction to Business

11th, 12th grade

Course Number: 7100 One Semester

.50 Credit

The Intro to Business Course provides students with some background prior to study of the more advanced courses in the business world. It has value for students in presenting career opportunities in various types of business occupations that are learned through computer-based assignments. Students will be working individually on computers to complete computer-based textbook assignments.

IT-1090:Computer Applications

9th, 10th grade

Course Number: 7146

1 credit (3 semester College Credits)

Cuyahoga Community College Course: Overview of the computer techniques and skills used in a professional environment. Instruction and hands-on training in file management, word processing, spreadsheet, presentation software, electronic collaboration, and professional Internet usage. Practical applications in researching, creating, editing, saving, presenting, and printing computer generated materials in a professional manner.

Social Media In Context

9th, 10th, 11th, 12th grade

Course Number 7130 One Semester

.50 Credit

Students will learn how social media has evolved and how it has impacted many different aspects of today's society, including how to use social media to communicate and receive information. Students will also learn how to determine the credibility of shared information and how to properly engage with other users in an ethical, responsible, and courteous manner. Students will learn the necessary skills to research, to think critically, and to communicate appropriately and effectively within various social media platforms.

Career Connections and Social Emotional Learning (SEL) I-II

Grades 9, 10, 11, 12

Course Numbers: 7144, 7145

One Semester: .50 Credit

- Students only need career connections I taken for a semester in 9th or 10th grade
 - Students only need career connections II taken for a semester in 11th or 12th grade.
- Students enrolled in a CTE program or are enrolled in a college pathway schedule do not need career connections in grades 11 and 12.

Success in life through education and career opportunities is inextricably linked to positive social

and emotional development and wellness. The COVID 19 pandemic created academic, social, and emotional learning and access gaps that must be addressed to ensure students are on track for appropriate grade level achievement, social and emotional development, and on-time graduation for optimal post-secondary options.

The district's career connections & social emotional learning (SEL) plan follows legislation and the Ohio Department of Education's K-12 Career Connections Framework to include age and grade-level appropriate activities developed around college and career readiness skills; age and grade-appropriate career competencies/soft skills which reflect and embed ODE's social and emotional learning standards. The comprehensive K-12 plan utilizes high-interest vendor-developed articles and literature that integrates literacy and SEL standards. Students will have opportunities to develop the study, research, and computer skills required for academic and career success. The ODE required success and graduation plans are maintained and consistent with district policy on career advising. Special presentations and programs will be offered. Essential skills like self-management, communication, personal goal setting, problem-solving and critical thinking will be addressed; understanding brain state development and executive functioning will be taught; positive behavior intervention supports will be reinforced.

Students continue career exploration while focusing on career planning. Activities provide advanced experiences that offer hands-on opportunities in a workplace. Career planning strategies focus on making clear links between career options and educational decisions. Students develop the skills to revisit previous exploration and planning strategies as they face career changes throughout life. Literature and activities aligned to the ODE SEL standards for each grade level are incorporated. Throughout the four-course series, students will research careers and occupations, review postsecondary admission qualifications, develop interviewing skills and participate in internships. Additional topics will include principles and techniques of professionalism, networking, conflict-resolution, negotiation, leadership and entrepreneurship. Attainment of ODE Graduation Seals, internships, application to Excel TECC programs and successful transition to college or careers are expected outcomes.

ACT PREP COURSE

Course Number: 7147

One Semester: .50 credit

The ACT Prep Course has a very simple objective: prepare students for the ACT Test. The ACT Test is used by colleges and universities as an important component of their entry requirements; consequently, it is in the best interest of all college-bound students to do as well as possible on the ACT Test. Students who do not meet a college's minimum standard in each of the areas tested on the ACT will be required to take remedial courses for which they will get no college credit but will have to pay for. In addition, many scholarships use the ACT Test score as criteria for awards. So, there is the added economic incentive to do as well as possible on the ACT.

The test consists of four sections: Math, English, Reading, and Science Reasoning. Because of the test's design, students will find that the Math and English sections are easier to prepare for than are the Reading and Science Reasoning sections; therefore, the majority of our time will be spent on the English and Math portions of the test. With that being said, students will take several Reading and Science tests as well which will help them considerably in terms of knowing exactly what to expect on the test. Test practice is key in improving test scores and optimizing each student's potential on the test.

FINE ARTS

These courses will satisfy the requirements for the Fine and Performing Arts Seal. Please see page 11 for specific details.

COURSE NUMBE	COURSE	PREREQUISITE	GRADE Level	LENGTH OF COURSE	CREDIT
6135	APStudioart/Photography	Photography II	11-12	Full Year	1
8133	APStudioArt/Drawing	Drawing or Painting	11-12	Full Year	1
8118	Drawing	None	9-10-11-12	One Semester	.50
8114	Painting	None	9-10-11-12	One Semester	.50
8119	Adv..Drawing & Painting *	Painting or Drawing	10-11-12	Full Year	1
8123	Ceramics	None	9-10-11-12	One Semester	.50
8124	Adv. Ceramics	Ceramics & Ceramics II	10-11-12	Full Year	1
8125	Ceramics II	Ceramics	10-11-12	One Semester	.50
8122	Digital Photoshop	None	9-10-11-12	One Semester	.50
8121	Graphic Design Tools	None	9-10-11-12	One Semester	.50
6000	Art Foundations	None	9-10-11-12	One Semester	.50
6215	Graphic Design	Graphic Design Tools	9-10-11-12	One Semester	.50
6125	Photography I	None	9-10-11-12	One Semester	.50
6130	Photography II	Photography 1	10-11-12	One Semester	.50
7136	3D Modeling	None	10-11-12	One Semester	.50

Given the nature of the experience in art, 12th grade students may unlock new found strengths and talents. At these times, a semester class may not be enough time to allow the student to fully bloom in a specific medium. On these rare occasions, and at the direction of the teacher, department coordinator, school counselor and administration, these students will be admitted into a full year, advanced level course at the semester. All art credits qualify as fine arts credit for an Honors Diploma.

Δ Students who wish to expand their artistic education may enroll in any AP and/or advanced level course **only** if they have passed their introduction course of their chosen subject with a “C” average or higher.

Δ Students who wish to expand their artistic education may enroll in any level II course **only** if they have passed their introduction course of their chosen subject with a ‘C’ average or higher.

FINE ARTS

AP Studio Art – Drawing

11th, 12th grade

Course Number: 8133 Full Year

1 Credit

Prerequisite: Open to juniors and seniors who have taken drawing or painting and passed with a “B” average and teacher recommendation based on portfolio review. AP Studio Art – Drawing is the final course in the fine arts development track for extremely dedicated and self-motivated art students. The class is a chance for the visually gifted to excel and receive recognition on a national scale. It allows students to compare their work with other high school students throughout the nation and helps them prepare an excellent portfolio for study at the college level. The teacher will work individually with the students to plan, organize, and prepare their work. Students will submit a Drawing Portfolio in accordance with the College Board Advanced Placement Program (Subject Code #029100). Juniors enrolled in this course will receive credit for “Honors Drawing.” Senior students enrolled in this course will take the AP exam, for which the College Board charges a fee.

Students enrolled in Advanced Placement course(s) are REQUIRED to take the Advanced Placement Exam.

Advanced Drawing & Painting

10th, 11th, 12th grade

Course Number: 8119 Full Year

1 Credit

Prerequisite: Painting or Drawing. Advanced Drawing and Painting takes the skills of the students to a new level. Having mastered the basics in Painting or Drawing, students now begin to adapt their own personal style. The content of the class is based on personal expression and large scale projects. Students learn how color and composition can evoke emotion and personality. The works of great artists will be discussed and used as an inspiration for student projects.

Ceramics

9th, 10th, 11th, 12th grade

Course Number: 8123 One Semester

.50 Credit

Ceramics gives students hands-on experience working in a three-dimensional medium. Designed as an introduction to clay, glazes, and ceramics techniques, students will explore clay through hand-building, slab and coil construction. Finished ceramic pieces may include pinch pots, coil pots, subtractive tiles, and the slab method.

Ceramics II

10th, 11th, 12th grade

Course Number: 8125 One Semester

.50 Credit

This course is designed for students who have successfully completed Ceramics and would like to continue with the medium in another semester course. Students will continue to develop techniques in slab, coil, and pinch building, as well as throwing on the pottery wheel, and building sculpture. Students will engage in experiences that encompass art history, art appreciation, art criticism, aesthetics, and production.

Advanced Ceramics**10th, 11th, 12th grade****Course Number: 8124 Full Year****1 Credit**

Prerequisite: Ceramics & Ceramics II This course is designed to build on the foundation of ceramic techniques and styles expanding each student's understanding of three-dimensional materials. Students will develop their individual styles using hand building techniques as well as a major emphasis on the potter's wheel. Course work will include functional projects as well as sculptural pieces.

Art Foundations**9th, 10th, 11th, 12th grade****Course Number: 6000 One Semester****.50 Credit**

This course will teach students to express themselves through the graphic arts. Students will explore the Elements and Principles of Art, measurement, color theory, and art history as they create their own original works through Drawing, Painting and Printmaking using a variety of media. This course should be considered the first step before taking other Art electives.

Graphic Design Tools**9th, 10th, 11th, 12th grade****Course Number: 8121 One Semester****.50 Credit**

Previously titled as Digital Design Tools, this course is an introduction to the tools commonly used in Graphic Design and related digital art fields. The focus will be on creating vector artwork and layouts. Students will complete exercises to learn how to use programs such as Adobe Illustrator, Photoshop, and Adobe InDesign though the emphasis will be primarily on Illustrator. Students who complete this course may sign up for Graphic Design in the following semester so that they can explore how to apply the skills they learned in this course.

Graphic Design**9th, 10th, 11th, 12th grade****Course Number: 6215 One Semester****.50 Credit**

Prerequisite: Graphic Design is a follow-up course to Graphic Design Tools. In this course, students will explore the Elements and Principles of Design, and learn to apply them to original artworks. Projects will be styled after common design jobs,(logo design, magazine covers, ads, posters, fliers, etc.) and will be completed using the software learned in the Graphic Design Tools class.

Photography I**9th, 10th, 11th, 12th grade****Course Number: 6125 One Semester****.50 Credit**

This course serves as an introduction to basic black and white darkroom photography. Students will learn creative camera controls, exposure and film development in addition to photographic printing techniques and darkroom manipulations.

Photography II**10th, 11th, 12th grade****Course Number: 6130 One Semester****.50 Credit****Prerequisite: Photography I**

This class is designed for the student interested in continuing their photographic experience. Students will

learn color printing techniques in addition to their existing skills in black and white. Materials will be provided, however, color film processing will be the sole responsibility of the student.

AP Studio Art: 2-D Design/Photography**11th, 12th grade****Course Number: 6135 Full Year****1 Credit**

Prerequisite: Open to Junior and Senior students who have taken Photography 2 and passed with a “B” average and/or teacher recommendation based on portfolio review. This is an advanced placement course and is for the committed and highly motivated photography student. This class is an opportunity for students to challenge themselves, receive recognition at the national level and receive college credit. Students will prepare a portfolio of photographic works focusing on their strengths in both black and white and color photography using both film and digital processes with guidance from the instructor. Students will be expected to concentrate on the development of subject matter and content in their work by keeping a journal of their progress. All students will submit a 2-D Design/Photography Portfolio in accordance with the College Board Advanced Placement Program (Subject Code #029110). **It is highly recommended that students have their own 35mm camera. Materials will be provided; however, color film processing and additional materials are the sole responsibility of the student.** Juniors enrolled in this course will receive credit for “Honors Photography.” Seniors enrolled in this course will take the AP exam, for which the College Board charges a fee.

Students enrolled in Advanced Placement course(s) are REQUIRED to take the Advanced Placement Exam.

Drawing**9th, 10th, 11th, 12th grade****Course Number: 8118 One Semester****.50 Credit**

This course is designed for students who are interested in improving their drawing skills. This will be an intense study of drawing where most of the projects will involve direct observation from life. The assignments will be based on the elements and principles of design. Medium choices may include pencil, scratchboard, charcoal and pastel.

Painting**9th, 10th, 11th, 12th grade****Course Number: 8114 One Semester****.50 Credit**

This course explores various techniques of acrylic painting. Students will learn how to apply color theory to paintings working from references furnished by the students. This course is designed for beginner painters who will learn to appreciate the application of color to their art. It is highly recommended that students complete a Drawing course prior to this class.

Digital Photoshop**9th, 10th, 11th, 12th grade****Course Number: 8122 One Semester****.50 Credit**

Adobe Photoshop is considered by many to be the premier tool when it comes to creating and editing 2D bitmap graphics and photos capable of far more than simply touching up photographs or adding effects. With practice and a bit of imagination, there's no limit to the imagery creatable with Photoshop. This course will help give students a firm grasp of the multitude of tools that Photoshop offers and develop their confidence and skills in both digital photography and basic graphic design.

3D Modeling**10th, 11th, 12th grade****Course Number: 7136 One Semester****.50 Credit**

Students in this course will explore the world of 3D art making as they learn to use SketchUp, a 3D modeling program that is a natural follow-up to the TinkerCad being taught at Memorial and Greenview. Course material will not only cover the use of the program, but also involve discussions of design considerations unique to additive manufacturing/prototyping (3D printing). Projects will be created in SketchUp Pro before being run through slicer software to prepare the models for printing.

HEALTH & PHYSICAL EDUCATION

COURSE NUMBER	COURSE	PREREQUISITE	GRADE LEVEL	LENGTH OF COURSE	CREDIT
7285	**Sports Leadership	PE	9-10-11-12 Male/Female	One Semester	.50
7151, 7161	Physical Education 1	None	9-10-11-12	One Semester	.25
7152, 7162	Physical Education 2	None	9-10-11-12	One Semester	.25
7250	Health Education	None	10	One Semester	.50
7270	*Sport and Exercise Science	PE	9-10-11-12 Male/Female	One Semester	.50
7275	*Personal Wellness	PE	9-10-11-12 Male/Female	One Semester	.50
7280	*Fitness for Life	PE	9-10-11-12 Female	One Semester	.50
7157/7158	#Weight Training and Fitness I	For out of season athletes and all other students	9-10-11-12 Male/Female	One Semester	.25
	#Weight Training and Fitness II				.25
7159/7160	#ARC Built I	Member of a BHS athletic team	9-10-11-12 Male/Female	One Semester	.25
	#Arc Built II				.25

***Health Credit/Health Elective**

****Elective**

#Classes that count for PE

Transfer students who come with a PE waiver will be honored as completion of the course.

Sports Leadership

Course Number: 7285

Prerequisite: .50 PE credit

9th, 10th, 11th, 12th grade

.50 Credit

Students will gain a knowledgeable background and experience in prevention, immediate treatment and rehabilitation of injuries commonly sustained by participants in athletics. Students will learn about different areas and professions involving sports medicine. This course is designed for students with a desire to serve in a leadership role and explore such topics as:

- Coaching
- Personal trainer
- Leading on and off the field/court
- Sports economics
- Team ownership

The course will be taught in the classroom.

Physical Education 1 & 2**Course Number: 7151, 7152, 7161, 7162****One Semester****9th, 10th, 11th, 12th grade****.25 Credit**

Two semesters of this course are required by all students for graduation. Effort and participation in both team and individual activities are required to maximize physical and social benefits for each student. All boys must take both 7151 and 7152. All girls must take 7161 and 7162.

Health Education**Course Number: 7250 Semester****9th, 10th, 11th, 12th grade****.50 Credit**

This course enables students to learn how to make better decisions regarding their personal health choices. Specific units include mental health, relationship violence, self-esteem, values, fitness, nutrition, disease detection, substance abuse, sexuality, and sexually transmitted disease (STD). Students have the ability to become CPR certified through The American Red Cross. This course is required for graduation.

Weight Training and Fitness I -7157 (.25 Credit)**9th, 10th, 11th, 12th grade****Weight Training and Fitness II-7158 (.25 Credit)****9th, 10th, 11th, 12th grade****Course Number: 7157/7158 Semester****(This course will count for PE Credit if both I and II are completed)****Prerequisite: (This course for out of season athletes and other students)**

This class provides the student with the opportunity to spend a full semester concentrating on increasing strength, speed, and quickness. Students will be able to exhibit knowledge and the understanding of the interaction of physiological and biomechanical factors that affect human performance. By using current research and hands-on experience to guide their learning, students will be able to develop a rationale for exercise training based on an individual's goals. The class will use both free weights and machines while emphasizing upper and lower body lifting. Flexibility instruction will also be included as well as speed conditioning. Students will be required to dress appropriately every day and to keep personal records of their progress. Also please note that in-season athletes will be required to follow the lifting and conditioning parts of the class on game days. Enrollment is limited with students being admitted on seniority basis. Credit is issued on a Satisfactory/Unsatisfactory (S/U) basis.

The course will be taught in the classroom and Arcfit, both indoors and outdoors.

Arc Built I 7159- (.25 Credit)**9th, 10th, 11th, 12th grade****Arc Built II 7160-(.25 Credit)****9th, 10th, 11th, 12th grade****Course Number: 7159/7160 Semester****Prerequisite: Member of a BHS athletic team (Course will count for PE credit if both I & II completed)****Arcs Built (This course for in season Athletes)**

This Brush High School Athletic Weights course is an advanced wellness course designed for students participating in competitive sports and activities. It features instruction on the techniques of weight training and conditioning as they pertain to athletic competition. This course involves a physically demanding program of weight training and fitness activities designed to enhance speed, agility, mobility, explosiveness, and coordination. In addition, the implementation of the Functional Movement Screen, education on substance abuse, sports nutrition, and fitness principles are applied. Arcs Built will continue to include mindset coaching and leadership development components tapping into our athletes' inner strengths to ensure we are confident in the most demanding situations throughout sport and life. Students undergo periodic strength and fitness assessments, and develop/revisit performance goals every 9 weeks. Credit is issued on a Satisfactory/Unsatisfactory basis. This course will build upon each year

Sport and Exercise Science**9th, 10th, 11th, 12th grade****Course Number: 7270****.50 Credits****Prerequisite: .50 PE credit** *This course may be used to meet the Health Education requirement.*

This elective class will require the completion of workouts with classroom material covering all the fundamentals of weight training with safety procedures stressed and enforced. It is important for students to understand the science of movement and muscles. The ten common muscles will be introduced and identified with machines used in the weight room. The effects of sports and exercise on health and fitness along with the prevention/treatment of athletic injuries will be covered. Project: Students will research and complete a PowerPoint and poster related to Sports Injuries. This course is designed for the sports and fitness-minded student to explore such topics as:

- Anatomy and physiology
- Injury prevention and treatment
- Kinesiology
- Strength and endurance
- Improving performance
- Effects of sports and exercise on health and fitness
- Nutrition
- Drugs, alcohol and tobacco
- Venereal disease
- Dating violence
- Prescription opioid abuse
- Anatomical gifts

The course will be taught in the classroom and Arcfit.

Personal Wellness**9th, 10th, 11th, 12th grade****Course Number: 7275****.50 Credits****Prerequisite: .50 PE credit**

This elective class will require the completion of workouts with classroom material covering all the fundamentals of weight training with safety procedures stressed. MyPlate will be introduced so

students can calculate calorie counting and maintain proper nutrition. The functions of various muscle groups will be reinforced and students will be introduced to (1) plyometric (2) speed ladders (3) core training and (4) proper stretching techniques. Project: Students will complete Nutrition Journals based on Breakfast and Lunch served at Brush High School and Fitness Journals. This course is designed for the non-athlete to instill the importance of lifelong wellness habits and explore such topics as:

- Healthy habits
- Leisure activities
- Dieting
- Achieving and maintaining a level of physical fitness
- Nutrition
- Drugs, alcohol and tobacco
- Venereal disease
- Dating violence
- Prescription opioid abuse
- Anatomical gift

The course will be taught in the classroom and Arcfit, both indoors and outdoors.

This course may be used to meet the Health Education requirement.

Fitness for Life**Course Number: 7280****Prerequisite: .50 PE credit****9th, 10th, 11th, 12th grade****.50 Credits**

This elective class will require the completion of workouts with classroom material covering all the fundamentals of weight training with safety procedures stressed and enforced. “Let’s Move” is a concept where students will be introduced to lifetime activities/sports. Students will identify the difference between Aerobic and Anaerobic activities. A healthy lifestyle is an active lifestyle. The healthy choices include (1) the dangers of soda/energy drinks (2) Fast Food choices (3) dangers of smoking/drinking on performance. Project: Students will research and create a poster reflecting the different Aerobic and Anaerobic activities that can promote Lifetime Fitness. This course is designed for students to instill the importance of lifelong fitness habits and explore such topics as:

- Fitness activities
- Group fitness
- Training methods
- Eating disorders
- Dieting
- Healthy choices
- Self-defense
- Nutrition
- Drugs, alcohol and tobacco
- Venereal disease
- Dating violence
- Prescription opioid abuse
- Anatomical gifts

The course will be taught in the classroom and Arcfit, both indoors and outdoors.

This course may be used to meet the Health Education requirement.

LANGUAGE ARTS REQUIRED COURSES

COURSE NUMBER	COURSE	PREREQUISITE	GRADE LEVEL	LENGTH OF COURSE	CREDIT
1110	English 9	None	9	Full Year	1
1100	Honors English 9	None	9	Full Year	1
1205	English10	English 9	10	Full Year	1
1200	Honors English10	Honors English 9	10	Full Year	1
1305	English 11 American Literature Writing and Research	English 10	11	Full Year	1
1300	Honors English 11	Honors 10	11	Full Year	1
1310	English 11	English 10	11	Full Year	1
1320	Integrated English 11	English 10	11	Full Year	1
1410	English 12 Modern Literature & Composition	English 11	12	Full Year	1
1415	English 12 Cultural Influences	English 11	12	Full Year	1
1405	English 12 British Literature	English 11	12	Full Year	1
1400	AP English Literature & Composition	Honors Eng 11 See Course Description	12	Full Year	1

ELECTIVE COURSES

COURSE NUMBER	COURSE	PREREQUISITE	GRADE LEVEL	LENGTH OF COURSE	CREDIT
1250	Beginning Speech	None	9-10-11-12	One Semester	.50
1251	Advanced Speech	Beginning Speech	10-11-12	One Semester	.50
1260	Theater I & Improv	None	9-10-11-12	One Semester	.50
1262	Theater II & Acting	"C" in Theater I & Improv	10-11-12	One Semester	.50
1919	Writing for Success	None	9-10-11-12	One Semester	.50
1915	Intro to Creative Writing	None	11-12	One Semester	.50
1922	Introduction to Women's Literature	Successful completion of 10th or 11th grade English	11-12	One Semester	.50
1921	Science Fiction and Fantasy Literature	Successful completion of 10th or 11th grade English	11-12	One Semester	.50
1923	Comics and Graphic Novels as Literature I	None	9-12	One Semester	.50
1924	Comics and Graphic Novels as Literature II	Comics and Graphic Novels as Literature I--preferred	9-12	One Semester	.50
1805	Yearbook	Interview with Advisor	10-12	Full Year	1

REQUIRED COURSES

Successful completion of four years of Language Arts courses is required for graduation. Students who fail a portion of the Language Arts credit will be allowed to move to the next level course. However, the portion failed must be made up in summer school or online school or other extended learning opportunities.

9	10	11	12
ENGLISH 9	ENGLISH 10	ENGLISH 11 AMERICAN LITERATURE & WRITING	ENGLISH 12 MODERN LITERATURE & COMPOSITION
HONORS ENGLISH 9	HONORS ENGLISH 10	HONORS ENGLISH 11	BRITISH LITERATURE (teacher recommendation) AP ENGLISH LITERATURE & COMPOSITION * (Must successfully have completed Honors English 11)

ELECTIVE COURSES

Elective courses count as credit for graduation but DO NOT apply toward the four-year English requirement

THEATER I IMPROV GRADES 9-12	WRITING FOR SUCCESS GRADES 9-12	BEGINNING SPEECH GRADES 9-12	COMICS AND GRAPHIC NOVELS AS LITERATURE II GRADES 9-12
THEATER II & ACTING GRADES 10-12	CREATIVE WRITING GRADES 11-12	ADVANCED SPEECH GRADES 10-12	
WOMEN'S LITERATURE GRADES 11-12	SCIENCE FICTION AND FANTASY LITERATURE GRADES 11-12	COMICS AND GRAPHIC NOVELS AS LITERATURE I GRADES 9-12	

Charles F. Brush High School Summer Reading List 2022-2023

NOTE: STUDENTS ENROLLED IN THE HONORS/AP COURSES REQUIRE A SUMMER ESSAY DUE THE FIRST DAY OF SCHOOL.

<i>9th Grade Courses</i>	<i>Title</i>	<i>Author</i>
<i>English 9</i>	<i>Choose One:</i>	
	<i>The Curious Incident of the Dog in the Night-time</i>	<i>Haddon</i>
	<i>A Long Way Gone</i>	<i>Beah</i>
	<i>Red Scarf Girl</i>	<i>Ji-Li Jiang</i>
	<i>I am Alfonso Jones (Graphic Novel)</i>	<i>Medina</i>
	<i>The Sisterhood of the Traveling Pants</i>	<i>Brashares</i>
<i>Honors 9*</i>	<i>Short Story packet distributed at 8th grade meeting in the Spring. PDF will be posted on the SEL District website.</i>	
<i>10th Grade Courses</i>	<i>Title</i>	<i>Author</i>
<i>English 10</i>	<i>Choose One:</i>	
	<i>The Iliad</i>	<i>Hinds</i>
	<i>I am Malala</i>	<i>Yousafzai</i>
	<i>Born a Crime</i>	<i>Noah</i>
	<i>Girl in the Blue Coat</i>	<i>Hesse</i>
	<i>The Long Walk to Water</i>	<i>Park</i>
<i>Honors 10*</i>	<i>In the Time of the Butterflies</i>	<i>Garcia</i>
	<i>Night</i>	<i>Weisel</i>

<i>11th Grade Courses</i>	<i>Title</i>	<i>Author</i>
<i>American Literary Heritage</i>	<i>Choose One:</i> <i>Orphan Train</i> <i>Dear Martin</i> <i>The Pregnancy Project</i> <i>Kindred (Graphic Novel)</i> <i>The 57 Bus</i>	 <i>Kline</i> <i>Stone</i> <i>Rodriguez</i> <i>Butler, Duffy</i> <i>Slater</i>
<i>American Literature, Writing & Research</i>	<i>Choose One:</i> <i>Orphan Train</i> <i>Dear Martin</i> <i>The Pregnancy Project</i> <i>Kindred (Graphic Novel)</i> <i>The 57 Bus</i>	 <i>Kline</i> <i>Stone</i> <i>Rodriguez</i> <i>Butler, Duffy</i> <i>Slater</i>
<i>Honors 11*</i>	<i>Their Eyes Were Watching God</i> <i>The Scarlet Letter</i>	<i>Hurston</i> <i>Hawthorne</i>
<i>12th Grade Courses</i>	<i>Title</i>	<i>Author</i>
<i>Cultural Influences in Media & Writing</i>	<i>Fahrenheit 451</i>	<i>Bradbury</i>
<i>Modern Literature</i>	<i>Fahrenheit 451</i>	<i>Bradbury</i>
<i>British Literature</i> <i>AP British Literature*</i>	<i>The Once and Future King: Sword in the Stone</i> <i>COMIC DRAMA: Gammer Gurton's Needle</i> <i>Much Ado About Nothing</i> <i>She Stoops to Conquer</i> <i>The Importance of Being Earnest</i> <i>Blithe Spirit</i> <i>NOVEL: Pride and Prejudice</i>	<i>White</i> <i>Anonymous</i> <i>Shakespeare</i> <i>Goldsmith</i> <i>Wilde</i> <i>Coward</i> <i>Austen</i>

NOTE: All Honors/ AP courses require a summer essay due the first day of school.

English 9**Course Number: 1110****9th grade****1 Credit**

Literature activities introduce the students to traditional and contemporary literature. Selections drawn from a wide range of sources and cultures reflect the diversity and richness of literature. The course provides a comprehensive study of literary types: epics, short stories, non-fiction, poetry, drama, and the novel. The student discovers, interprets, evaluates, and applies ideas/themes of literature through guided discussions, cooperative groups, and individual response and analysis. Composition activities are designed for the student who has a command of writing and grammar fundamentals and is ready to experiment with a variety of writing techniques. Students review the basic elements of the paragraph and methods of paragraph development. Students will be expected to write compositions of several paragraphs.

Composition practice focuses on the skills for effective description and narration. Techniques of exposition and the foundations of research are introduced. Vocabulary is strengthened through the selection of precise words and the study of the connotation of words. Grammar, mechanics, and usage skills will be presented as needed. **Summer Reading is required. (See chart on page 47/48)**

English 10**Course Number: 1205 Full Year****10th grade****1 Credit****Prerequisite: English 9**

Reading and literature activities focus on twentieth century western and non-western works that present personal, cultural, social, ethical, and political concerns that confront modern society. The approach is thematic and includes fiction, non-fiction, poetry, and drama. Text selections will enable the student to gain a global view of literary traditions, develop an understanding of, and appreciation for, diversity in literary works, and determine the common characteristics, techniques, and themes found in all cultures and their literature. Composition activities emerge from the literature studies and themes presented. Emphasis will be given to the writing of exposition, argument, writing, and includes a research paper on a global issue. The student will clarify his/her thoughts, organize them, and set them down in writing. Grammar, mechanics, and usage skills will be presented as needed. Students are required to complete a research paper. **Summer Reading is required. (See chart on page 47/48)**

A standardized End-of-Course (EOC) exam, mandated by the State of Ohio is required for this course. Students must earn a score of 684 or better on the End-of-Course (EOC) Exam.

English 11 (American Literature Writing and Research)**Course Number: 1305 Full Year****11th grade****1 Credit****Prerequisite: English 10 B**

Composition activities are designed to refine expression in descriptive, expository, argumentative, and persuasive essays. Emphasis is placed on the writing process with a special focus on the use of appropriate diction and varied desired effect. An intensive unit on the techniques of the research paper and appropriate documentation will culminate in the production of an individual research paper, a requirement of the course. Grammar, mechanics, and usage skills will be presented as needed. Readings and literature activities provide a background in the styles and themes which form America's literary tradition. The course includes choice as well as whole class novels and plays. **Summer Reading is required. (See chart on page 47/48)**

English 11**Course Number: 1310 Full Year****Prerequisite: English 10A**

Composition activities are designed for the student who plans to enter the world of work or a junior or vocational college after graduation. All areas of written and oral communication, including the various types of business correspondence, are emphasized. Literature activities are designed to give the students an appreciation of the diverse cultural heritage in American literature. The students will read, write about, and discuss the content, form, themes, and importance of literature by major American authors from varied backgrounds from the earliest literature to the present.

Summer Reading is required. (See chart on page 47/48)

11th grade**1 Credit****English 12 Modern Literature and Composition****Course Number: 1410 Full Year****Prerequisite: C in English 11 (American Literature Writing and Research) or recommendation of a junior year teacher.**

Modern Literature and Composition presents a thematic view of twentieth century literature and the arts to enable students to broaden their literary experience and strengthen interpretive skills. Major works, both print and visual, which convey numerous viewpoints on the theme, serve as the foundation of the units. These may include the individual in society, utopian societies, and intellectual freedom. Current events, ethical issues, and social concerns are explored through the literature; which includes full length fiction, nonfiction, drama, and film. Students will read modern and contemporary works and compare/contrast them with modern renditions in print and film. Designed to provide a foundation for college freshman writing courses, Modern Literature and Composition offers students the opportunity to practice a variety of writing types. Composition skills are practiced extensively and are refined throughout the course as writings range from personal response to analysis and criticism of what is read, discussed, and viewed. Writing assignments emerge from the literature and themes studied. Students can expect to display their knowledge and appreciation of work in writing, projects, and performances. **Summer Reading is required. (See chart on page 47/48)**

12th grade**1 Credit****English 12 Cultural Influences****Course Number: 1415 Full Year****Prerequisite: English 11**

This course involves a study of both classic and modern literature and visual media and the relationship between them, as well as the traditional literary and societal influences which have helped to shape modern and contemporary works. Primary emphasis is on the development of character and or theme in novels and short works of fiction. Other units include a study of language and language terms, film, modern non-fiction, poetry and the essay. Reading and writing skills are stressed. **Summer Reading is required. (See chart on page 47/48)**

12th grade**1 Credit**

English 12 British Literature and Composition**12th grade****Course Number: 1405 Full Year****1 Credit****Prerequisite: C+ in English 11 or recommendation of junior year teacher.**

British literature provides a chronological survey of selected works and authors from the Anglo-Saxon period through the modern period. During the first semester, students read, write about, and discuss content, form, theme and importance of selected British masters and their works from the Anglo-Saxon through the medieval period. During the second semester, students read and analyze drama, prose, and poetry through the Romantics period. Pertinent historical events are discussed as they influence the literature of the period. The development of the English language through word origins and selected vocabulary is also a feature of the course. Composition activities focus on the in-class essay, literary reactions and analysis, and the primary source paper. Students will select, read independently, and produce a literary critique and a research paper of a British novel. Students can expect to display their knowledge and appreciation of their work in writings, projects, and performances. **Summer Reading is required. (See chart on page 47/48)**

LANGUAGE ARTS HONORS/ADVANCED PLACEMENT PROGRAM**Honors English 9****9th grade****Course Number: 1100 Full Year****1 Credit****Prerequisite: Teacher recommendation, Gifted Identification, and overall classroom performance will be given consideration.**

The course includes the strengthening of vocabulary through the study of context and use in literature and the application of grammar concepts through systematic writing assignments focusing on specific skills of exposition. Students read short stories, novels, poetry, mythology, and drama. Because of the intensive, in-depth reading and writing demands of this course, letter grades are weighted. Students entering this class must be highly motivated, exhibit an enthusiasm for extensive and varied reading analysis, and an interest in exchanging ideas and challenging assumptions appearing in literature. **Summer reading and a writing assignment are required to be completed prior to and due on the first day of school. (See chart on page 47/48)**

Honors English 10**10th grade****Course Number: 1200 Full Year****1 Credit****Prerequisite: C+ or better in Honors English 9 or teacher recommendation**

The course includes a study of novels from the nineteenth and twentieth centuries, Greek drama, and Shakespearean drama. Supplementary reading focuses on poetry, biography, and literary criticism. Composition assignments, both in and out of class, include the analytical essay and literary critique. Emphasis will be given to development of skills in diction and sentence structure to achieve a mature writing style. Extensive vocabulary study helps sharpen writing skills. **Summer reading and a writing assignment are required to be completed prior to, and due on, the first day of school. (See chart on page 47/48)**

Honors English 11**11th grade****Course Number: 1300 Full Year****1 Credit**

Prerequisite: Successful completion of Honors English 9 or Honors English 10 or sophomore year teacher recommendation. The course includes extensive reading of significant novels, dramatic works, poetry and philosophy with an emphasis on American literature. Additionally, students will read works of literary criticism and write a critical essay on each of the readings. Students must complete a ten to twelve page term paper in the second semester. **Summer reading and a writing assignment are required to be completed prior to, and due on, the first day of school. (See chart on page 47/48)**

**Advanced Placement
English Literature and Composition
Course Number 1400 Full Year**

**12th grade
1 Credit**

Prerequisite: Completion of Honors English 11 with a C+ or higher

The course is a survey of English literature with special emphasis on drama and poetry. Class format follows the seminar approach to enable the student to examine the style, content, and literary quality of a work and to refine organizational and articulation skills. The skills of close reading, interpretation, analysis, and evaluation are emphasized. To develop precision in diction and in expression of ideas in preparation for college work and the AP exam, emphasis is placed on the in-class analytical essay. **Summer reading and a writing assignment are required to be completed prior to and due on the first day of school. (See chart on page 47/48)**

Students enrolled in Advanced Placement course(s) are REQUIRED to take the Advanced Placement Exam.

Language Arts Electives

*Credit from elective courses DOES NOT apply toward the four-credit Language Arts requirement. A course in public speaking gives students the confidence and poise necessary for success in college and in careers. **The Language Arts Department highly recommends that each student takes Introduction to Speech as part of their elective program at Brush.***

Beginning Speech

9th, 10th, 11th, 12th grade

Course Number: 1250 One Semester

.50 Credit

This course is for all students interested in learning how to organize ideas, explore many aspects of oral communication and become more efficient listeners. Students will learn techniques of voice and body control, how to use a variety of audio-visual aids in speech making, and how to prepare and deliver speeches to inform, stimulate, process and persuade.

Advanced Speech

10th, 11th, 12th grade

Course Number: 1251 One Semester

.50 Credit

Prerequisite: Beginning Speech This course includes the study of communication skills needed for effective discussion, basic principles of argumentation and theories and concepts of persuasive communication. Experimentation with various forms of oral interpretations of prose, poetry, monologues and Reader's Theater is included. The Course is designed to increase the student's abilities to think critically and to establish interpersonal relationships within the context of the group.

Writing for Success

9th, 10th, 11th, 12th grade

Course Number: 1919 One Semester

.50 Credit

The primary focus of this class is to support students who plan on attending college. The focus will be to work in small groups to improve the student's ability to write in an academic setting. Students will focus on academic writing, technical writing, grammar and mechanics. Students will get personal attention from the teacher to help them to understand the process of writing. The forms that will be addressed are: five (5) paragraph essays, compare and contrast essays, narrative essays, expository pieces and research writing.

Theater I & Improv**9th, 10th, 11th, 12th grade****Course Number: 1260 Full Year****.50 Credit**

This year-long course focuses on the principles of theater and improvisation. The class introduces students to theater history, character development, costume design and make-up, script analysis, rehearsal and performance, reader's theater, and the technical elements of production. The course will also introduce students to the elements of improvisational acting in both individual and ensemble performance settings. This aspect of the course will teach students the art of spontaneous creation. Individual and group exercises progress from pantomime through dramatic and comedic monologues, a duet and small group scenes and one-act plays.

Theater II & Acting**10th, 11th, 12th grade****Course Number: 1262 Full Year****.50 Credit****Prerequisite: C or higher in Theater I**

This course builds on the theories and skills introduced in Theater I and Improv designed for the student who is interested in gaining a deeper understanding of drama. Theater II exposes students to a broad range of classic and contemporary drama, including works from the Greeks, Commedia dell'Arte, Shakespeare, and modern and contemporary drama. Students will focus on the dramatic and literary merits of these works. Students will have the opportunity to choose and prepare monologues and ensemble scenes for study and may, as a team, develop a theater production for public performance.

Introduction to Creative Writing**11th & 12th grade****Course Number: 1915 One Semester****.50 Credit**

This course provides an outlet for students who wish to explore the imaginative expression of ideas. Students will gain an appreciation for the creative process by examining literary models and producing a variety of short literary works including character and story sketches, lyric poems, children's books and other commercial creative projects as time allows. Students will be expected to keep a writer's journal, write and revise daily, work with others to share and critique student work and submit completed works for publication. Student's work will be evaluated through a portfolio/collection of works.

Intro to Women's Literature**11th & 12th Grade****Course Number: 1922 One Semester****.50 Credit****Prerequisite: C+ in English 10 or English 11**

This course will introduce students in grades 11-12 to a variety of literature by and about women. Students will closely and critically read fiction, poetry, drama, and non-fiction from different periods of history and compare the different perspectives of women in place and time. Students should be prepared to read, write, and discuss the selections and reflect on the contribution of women both nationally and globally. Students enrolled in this course should enjoy reading and discussing literature.

Science Fiction and Fantasy Literature**11th & 12th Grade****Course Number: 1921 One Semester****.50 Credit****Prerequisite: C+ in English 10 or English 11**

Almost half of the top money making movies of all time are science fiction or fantasy films; clearly the genre appeals to many people. This course will trace the roots of science fiction and fantasy literature. It will also examine some of the major writers and major themes using a collection of novels and short stories, as well as some videos. More often than you realize, the advancements of science fiction have become science fact!

Comics and Graphic Novels as Literature I**9th, 10th, 11th, & 12th Grade****Course Number: 1923 One Semester****.50 Credit****Prerequisite: None**

This course will explore the comic genre of literature as a method of storytelling combining the ideas of traditional literary study with a visual arts component. The students will investigate and analyze popular culture representations of life experiences, historical events, and ethnic and cultural groups. Comics allow authors to literally “put a human face” on any given subject allowing readers to experience literature in a multi-sensory approach. Concepts such as gender, race, political movements, social justice, intolerance, survival, exceptionalities, and heroism will be focused upon as well as the structure and form of the ever important genre being used to convey these themes. Comic and graphic storytelling embody and demonstrate the potential to surprise us while pausing to consider people, culture, conflict, ideas, dreams, and tragedies that we have not encountered in quite the same way before. This form of literary presentation allows readers to discover facets of their own lives while gaining insight into the world and issues around them.

Comics and Graphic Novels as Literature II**9th, 10th, 11th, & 12th Grade****Course Number: 1924 One Semester****.50 Credit****Prerequisite: Comics and Graphic Novels as Literature I preferred, but not required**

This course will be an extension of the ideas utilized in **Comics and Graphic Novels as Literature I**. In addition to covering the themes expressed in the first course, this class will further focus on literary merit and the question of the artistic value of storytelling through sequential art. This course will pose the questions “What is considered literature?” “What is not?” and allow students to engage in the discovery of the visual literary art form while examining the dangers of literary presumption. This course will evaluate forms of literature and history with their artistic retellings allowing readers to fully immerse themselves into the methods of modern storytelling. Key literary ideas such as the author's purpose, voice, tone, and perspective will be a focus. In addition, the ideas of the history and perception of the graphic format as it relates to censorship or marginalization will be examined.

Yearbook Production**10th, 11th, & 12th Grade****Course Number: 1924 Full Year****1 Credit****Prerequisite: Interview with advisors**

This class produces the school yearbook. Focus is placed on journalistic writing, editing, photography and page design. Students will also gain significant technological experience with digital cameras and yearbook software. Some work after school is required.

MATHEMATICS

COURSE NUMBER	COURSE	PREREQUISITE	GRADE LEVEL	LENGTH OF COURSE	CREDI
3120	Algebra 1	None	9	Full Year	1
3125	Geometry	Algebra1 (passed AIR) or Algebra 2	10-11	Full Year	1
3210	Adv. Algebra 2	Geometry	10-11	Full Year	1
3205	Algebra 2	Algebra 1	10	Full Year	1
3315	FST	Adv. Algebra 2 (#3210) or	11-12	Full Year	1
3310	Pre-Calculus	FST or Adv. Algebra 2 (#3210)	11-12	Full Year	1
3135	Honors Algebra 1	Teacher Rec.	9	Full Year	1
3105	Honors Algebra 2 w/Trig	Honors Geometry	10-11	Full Year	1
3130	Honors Geometry	Honors Algebra 1	9-10	Full Year	1
3300	Honors Analysis	Honors FST	11-12	Full Year	1
3400	AP Calc AB	Honors Analysis or Pre-Calculus	12	Full Year	1
3403	AP Calc BC	Honors Analysis	12	Full Year	1
3525	AP Stats	Honors Analysis or Pre-Calculus	12	Full Year	1
3313	Calculus	Pre-Calculus	12	Full Year	1
3530	Discrete Math	FST or Algebra 2	12	Full Year	1
3535	Mathematics Modeling & Reasoning	Algebra 2 and Geometry	12	Full Year	1

A passing grade in all courses is a prerequisite for the next course. A full credit is required prior to scheduling the next course. A half credit can be made up in summer school, online school or other extended learning opportunities, or the student will need to repeat the course the following year.

Brush High School 2022-2023

Mathematics Sequence of Courses

Algebra 9th grade -----Algebra 2 -----Geometry-----FST

(Failed the AIR test)

Discrete Math

Mathematical Modeling &
Reasoning

Passed the Algebra 1 Air test Geometry -----Advanced Algebra 2-----Pre- Calc

Mathematical Modeling &
Reasoning

Algebra-----Algebra 2-----Geometry-----FST -----Pre-Calc

(8th Grade Failed the air test) 9th Grade

Discrete Math

Mathematical Modeling &
Reasoning

Mathematical Sequence of Courses (Honors)

Honors Algebra--- Honors Geometry----Honors Algebra 2 with Trig---Honors Analysis-----AP Calc BC (Top)

(8th or 9th Grade)

AP Stats

AP Calc AB

Mathematical Modeling &
Reasoning OR Calculus

Algebra 1

Course Number: 3120

Full Year

9th grade

1 Credit

Prerequisite: None

This college preparatory course will focus on the Mathematics Standards. The topics will include linear, exponential and quadratic function, and the mathematical modeling of data for all said functions. Students will understand and classify numeral patterns as arithmetic and geometric sequences, graphing, and solving systems of linear equations and inequalities. Topics in number theory will include the properties of real and imaginary number values. Students will obtain a strong understanding of polynomial operations including factoring quadratics. **(TI-30 scientific calculator is recommended for this course.) A standardized End-of-Course (EOC) exam, mandated by the State of Ohio is required for this course and a score of 684 or better on the End-of-Course (EOC) exam is required.**

Geometry**10th, or 11th grade****Course Number: 3125 Full Year****1 Credit****Prerequisite: Algebra 1 (proficient score on Algebra 1 AIR test) or Algebra 2**

This college preparatory course will focus on Mathematical Standards. The topics will cover a wide range of geometrical foundations such as constructions, theorems, postulates, properties and proofs. The initial content will revolve around points, lines, planes and transformations in the coordinate plane. This content will build to application problems of two-dimensional and three-dimensional shapes in the real world. The next main content will take an in-depth look at triangles such as properties of congruence and similarity within the coordinate plane, and trigonometry application problems. From there, the course studies quadrilaterals by categorizing them and analyzing their unique properties. The last geometric figure that will be studied is circles. This topic will look at properties of circles, along with deriving equations of, and applying arc length and area of a sector to real world applications. The course will conclude with data analysis using compound probabilities, permutations and combinations. Technology support will take the form of Savvas Realize. **(TI-30 scientific calculator recommended for this course).** *A standardized End-of-Course exam, mandated by the State of Ohio is required for this course.*

Algebra 2**10th grade****Course Number: 3205 Full Year****1 Credit****Prerequisite: Algebra 1**

The following topics will be covered: equations & inequalities, systems, quadratic functions, real & complex numbers, polynomial functions and matrices. In the classroom, the student will learn to use multiple representations to analyze questions and evaluate answers. **(TI-84 Plus graphing calculator is recommended for this course).** *Students in this course will retake the Algebra I EOC in the hope of improving the benchmark score for graduation.*

Advanced Algebra 2**10th, 11th grade****Course Number: 3210 Full Year****1 Credit****Prerequisite: Geometry (C or better)**

Algebra 2 is an extension of our College Preparatory program. The student will expand their understanding of the four critical topics formulated from State Standards: functions, modeling, geometry and statistics & probability. Topics will include in depth exploration of polynomial, rational, radical and exponential functions. The course will examine right triangle trigonometry, trigonometric identities, the unit circle and transformation on graphs of diverse functions. Emphasis of instruction will be the development of Standards of Mathematics Practices. **(TI-83 Plus graphing calculator is required for this course).**

Functions Stats & Trigonometry**11th, 12th grade****Course Number: 3315 Full Year****1 Credit****Prerequisite: Algebra 2-(Course #3210)**

This course is offered to strengthen the mathematical skills of students who have successfully completed Algebra 2, but are not ready to enter Pre-Calculus. Graphing calculators are used throughout the course to promote a student's ability to visualize functions, to simulate experiments, and to develop a concept of limit. Topics include polynomial, trigonometric, exponential and logarithmic functions, sequences and series, and permutations. **(TI-83 plus graphing calculator is required for this class).**

Pre-Calculus**11th, 12th grade****Course Number: 3310 Full Year****1 Credit****Prerequisite: B- or better in either Algebra 2-(Course #3210) or FST with Department Recommendation.**

This course is required for those students entering technical, scientific, mathematical, computer science, or business majors in college. The course includes: functions of the acute angle; solutions of right triangles; solutions of oblique triangles; functions of two angles; complex numbers. This course will also cover the five basic plane curves-straight line, the study of conic sections, determinants and matrices, solutions of higher equations; and sequence and series. The major objective of the course is to prepare the student for a first-year Calculus course. Every student successful in this course should plan to take AP Calculus AB the following year. **(TI- 84 plus graphing calculator is required for this course).**

Honors Algebra 1**9th grade****Course Number: 3135 Full Year****1 Credit****Prerequisite: Teacher Recommendation**

This is an accelerated Algebra I course designed for highly motivated ninth graders with a strong ability level in mathematics. Students will demonstrate high levels of performance with linear, quadratic and exponential functions. There will be solving of multi-operational equations, inequalities and systems of linear equations. Student reasoning will lead to the writing of viable arguments and application to real-world application. Students taking this course are required to have a **TI-30 scientific calculator. A *standardized End-of-Course (EOC) exam, mandated by the State of Ohio is required for this course and a score of 684 or better on the End-of-Course (EOC) exam is required.***

Honors Geometry**9th, 10th grade****Course Number: 3130 Full Year****1 Credit****Prerequisite: Honors Algebra 1 C or higher**

The honors level class is designed for freshmen and sophomores that have demonstrated well-developed mathematical skills in honors Algebra. The material is presented in a more rigorous manner using more challenging exercises and complex proofs. The content standards will be covered more in depth and with a greater level of abstraction. The content standards include constructions and proofs, right triangles and trigonometry, transformations, probability, planar, and solid Euclidean geometry. The Mathematical Practice Standards apply throughout this course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. **(TI-30 scientific calculator recommended for this course). A *standardized End-of-Course exam, mandated by the State of Ohio is required for this course.***

Honors Algebra 2 with Trigonometry**10th, 11th grade****Course Number: 3105 Full Year****1 Credit****Prerequisite: Honors Geometry - C or higher**

This is an accelerated Algebra 2 course with an integrated emphasis in trigonometry. This course is for students who will be taking an Advanced Placement math course in their senior year. The course emphasizes facility with algebraic expressions and forms, especially quadratic forms, powers and roots. Students will study logarithmic, trigonometric, polynomial, and other special functions. Additional topics will include polynomial identities to complex numbers, fundamental Theorem of Algebra, Binomial Theorem and operations of rational expressions. **Students taking this course are *required* to have a TI-84 calculator.**

Honors Analysis**11th, 12th grade****Course Number: 3300 Full Year****1 Credit**

Prerequisite: C+ or better in Honors Functions, Statistics and Trigonometry and Department Recommendation. This course is the last in the series of honors prerequisites designed to prepare the student for a full Advanced Placement Calculus BC course in the 12th grade. Students entering this course are expected to be thoroughly familiar with algebraic properties and concepts. Topics discussed include: axioms and properties of ordered fields, complex numbers, mathematical induction, sequences and series, data analysis, polynomial functions, exponential and logarithmic functions, circular and trigonometric functions, an introduction to analytical geometry, and an introduction to derivatives. **(TI 84 plus graphing calculator is required for this course).**

Advanced Placement Calculus AB**12th grade****Course Number: 3400 Full Year****1 Credit**

Prerequisite: C+ or better in Pre-Calculus or Honors Analysis and Department

Recommendation. This course is designed for all students who passed a complete year of Pre-Calculus in their junior year with a C+ or better. It covers topics included in a first semester college Calculus course, and functions are represented from graphical, numerical, algebraic, and verbal approach. Course content parallels the topics identified by the College Board as tested on the Advanced Placement Calculus AB exam. Topics covered include: multiple representations of functions, limits and derivatives, differentiation rules, optimization problems, Newton's method, Riemann sums, interpretations and properties of integrals, applications of the integral, differential equations, and slope fields. At the end of this course, the student will take the Advanced Placement AB exam. **(TI- 84 plus calculator is required for this course).** *Students enrolled in Advanced Placement course(s) are REQUIRED to take the Advanced Placement Exam.*

Advanced Placement Calculus BC**12th grade****Course Number: 3403 Full Year****1 Credit**

Prerequisite: C+ or better in Honors Analysis along with Department Recommendation.

The prime objective of the course is the preparation for the Advanced Placement Examination. While initially conceived for students intending a future mathematics and natural science college major, the course has been broadened to include applications which are important to students with a wide range of other interests. Topics covered are: analytic preparation in the study of functions; theory, proof and applications of theorems related to limits, continuity, differentiability and integrability; algebraic, trigonometric and transcendental functions; and derivations and applications of formulas for differentiating and integrating. Every student enrolled in this course is expected to take the AP Calculus exam at the end of the school year. **(TI-84 plus graphing calculator is required for this course).** *Students enrolled in Advanced Placement course(s) are REQUIRED to take the Advanced Placement Exam.*

AP Statistics**11th, 12th grade****Course Number: 3525 Full Year****1 Credit****Prerequisite: A or B in either Pre-Calculus, Honors FST, Honor Analysis**

The purpose of this AP Statistics course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The course will follow the topics and methods of instruction suggested by the College Board. Topics include gathering and analyzing data, planning a statistical study, producing probability models and simulations, and statistical inference. Students will be required to use modern technology to make and prepare presentations and reports, both written and oral. Students taking this course are expected to take the AP Statistics exam at the end of the school year. **(TI- 84 plus graphing calculator is required for this course).** *Students enrolled in Advanced Placement course(s) are REQUIRED to take the Advanced Placement Exam.*

Calculus**12th grade****Course Number: 3313 Full Year****1 Credit****Prerequisite: Pre-Calculus**

This calculus class is designed to give students an overview of Calculus topics such as limits and continuity, derivatives, anti-derivatives, integrals and differential equations. While this course covers many of the same concepts found in Advanced Placement Calculus, it is not bound by the pace and rigor necessary for success on the AP Calculus exam. Therefore, this course best suits the student who is mathematically ready to learn the concepts of an entry level calculus class but will not be taking the AP exam. **(TI—84 plus calculator is required for this course).**

Discrete Math**12th grade****Course Number 3530 Full Year****1 Credit****Prerequisite: FST or Algebra 2**

This course is offered as a fourth year of mathematics class. This course is designed for those students who plan on attending a four-year college. The first semester will include concepts in statistics and probability. The emphasis will be on the use of real data, experimentation and the communication of their outcome. The second semester will introduce students to set theory, apply fundamental counting algorithms to solve applied problems and prove statements by means of inductive reasoning. **(TI—84 plus calculator is required for this course).**

Mathematical Modeling and Reasoning**Course Number 3535 Full Year****12th grade****Prerequisite: Algebra 2 and Geometry****1 Credit**

The Mathematical Modeling and Reasoning course is an advanced quantitative reasoning course. Quantitative Reasoning is the application of basic mathematics skills, such as algebra, to the analysis and interpretation of quantitative information (numbers and units) in real-world contexts to make decisions relevant to daily life. Critical thinking is its primary objective and outcome. It emphasizes interpretation, representation, calculation, analysis/synthesis, assumptions, and communication.

MUSIC

COURSE NUMBER	COURSE	PREREQUISITE	GRADE LEVEL	LENGTH OF COURSE	CREDIT
INSTRUMENTAL					
8175	+Band	Performance Skill & Training Course	9-10-11-12	Full Year	1
8155	+Orchestra	Performance Skill & Training Course	9-10-11-12	Full Year	1
8156	+Chamber Orchestra	Performance Skill & Training Course	10-11-12	Full Year	.50
8182	+Jazz Ensemble	Teacher recommendation Student must also be scheduled for band	9-10-11-12	Full Year	1
VOCAL					
8165	+Concert Choir	Teacher recommendation	9-10-11-12	Full Year	1
8270	+Chorale	Audition	9-10-11-12	Full Year	1
8265	+Soundsation Show Choir	Audition	9-10-11-12	Full Year	1
MUSIC THEORY					
8171	Music Theory I	Musical Literacy, Instructor Approval	9-10-11-12	One Semester	.50
8172	Music Theory II	Music Theory I or Instructor Approval	9-10-11-12	One Semester	.50
MUSIC TECHNOLOGY					
8173	Music Technology I	None	9-10-11	One Semester	.50
8174	Music Technology II	Music Technology I	9-10-11	One Semester	.50

+Students are selected for the course

- All types of instrumental music requires an audition and consultation with the teacher.
- Music credits qualify as the Fine Arts Credit for the Honors Diploma
- These courses will satisfy the requirements for the Fine and Performing Arts Seal and/or the Student Engagement Seal. Please see page 11 for specific details.

Music Theory 1

9th, 10th, 11th, 12th grade

Course Number: 8171 One Semester

.50 Credit

Prerequisite: The ability to read musical notation (in at least one clef) at the high school level.

Music Theory 1 is an entry level music theory course intended for students who have played an instrument, participated in choir, or taken private lessons and are interested in becoming a better musician. Students will develop basic skills in the areas of music history, musical notation, aural, and chords that can be applied to a number of instruments.

Music Theory 2**9th, 10th, 11th, 12th grade****Course Number: 8172 One Semester****.50 Credit**

Prerequisite: Music Theory 1 or Instructor approval. Music Theory 2 is an extension of the concepts learned in Music Theory I. Students will learn advanced harmonic techniques, aural skills, and basic arranging and compositional techniques. The course will conclude with two student-designed projects.

Band**9th, 10th, 11th, 12th grade****Course Number: 8175 Full Year****1 Credit**

Prerequisite: Performance skill and completion of Brush Band Training Program. Students new to Brush High School must audition. Band is a FULL YEAR COURSE open to all students who can play a band instrument, read music, and participate in ALL rehearsals and performances. Like many other courses at Brush High School, band requires a significant investment of time beyond regular school hours. All band members will participate in the Marching Band beginning in July and will participate in either Wind Ensemble or Symphonic Band after the Marching Band season is complete. Students will be placed in Wind Ensemble or Symphonic Band based on an audition that is completed in the spring of the preceding year. Students may join band class by successfully completing an audition to demonstrate proficiency in reading music and playing an instrument. (Students with no formal training will first need to receive individual private instruction with a professional teacher in order to gain the skills needed to successfully complete an audition.) Summer rehearsals, performances at football games and band shows, parades, concerts, and OMEA District and State Contests are all integral parts of the course and student evaluation procedures. Students who cannot participate in each of these activities are not eligible to participate in band. Several fees are required for participation in band class. Fees for band camp, uniform cleaning, shoes, and other accessories are paid directly to the SEL Band Boosters in the summer. Students who use school-owned instruments will be assessed a usage fee once each semester. Students must be registered for band during the school day in order to participate in any band activities. Students who are in school-sponsored vocational or postsecondary programs may be exempted from this rule with the approval of the band director and the principal or their designee.

Orchestra**9th, 10th, 11th, 12th grade****Course Number: 8155 Full Year****1 Credit**

Prerequisite: Performance skill and audition.

The orchestra is a performing ensemble composed of students with intermediate performance skills on the violin, viola, cello, and string bass. Students who have not been a member of this school district's orchestra program in the previous year must audition to be accepted into the orchestra. Additionally, students with advanced skills and/or a high level of motivation are invited to become members of the chamber orchestra. All members are strongly encouraged to participate in private lessons.

Chamber Orchestra (Subject to change)**9th, 10th, 11th, 12th grade****Course Number: 8156 Full Year****.50 Credit**

Prerequisite: Performance skill and audition. Chamber Ensemble is a select group of string musicians. Students perform a wide variety of works scored for smaller groups, students rehearse once weekly after school and are required to attend all rehearsals. Students need to be available for various evening performances.

Jazz Ensemble (2nd Period)
Course Number: 8182 Full Year
Prerequisite: Audition

9th, 10th, 11th, 12th grade
1 Credit

Second period Jazz Ensemble (Brush Jazz Effect) is a year-long course open to all students who can play an instrument, read music and participate in all rehearsals and performances. Students not enrolled in 3rd period band are eligible to enroll pending successful completion of a playing audition and director permission.

Concert Choir
Course Number: 8165 Full Year

9th, 10th, 11th, 12th grade
1 Credit

Concert Choir is a non-auditioned vocal ensemble designed to introduce singers to choral ensembles at the high school level. Various vocal techniques will be presented and utilized to teach students to read music and perform a wide variety of musical genres including foreign language. This group is comprised of all high school grade levels. All students of any musical level are welcome to explore vocal music in this class and it is a prerequisite to audition for Chorale or Honors Chorus(extracurricular activity). Culminating performances are meaningful and a mandatory component of this class; therefore, performers must be present for all rehearsals and performances, (which are graded.) Some rehearsals outside of the school day may be required for various choral events throughout the year.

Chorale
Course Number: 8270 Full Year

10th, 11th, 12th grade *(9th grade by invitation only)
1 Credit

Prerequisite: Audition prior to beginning of the school year. Students must be able to sight read music, understand musical notation and have good skill and understanding of proper concert and rehearsal etiquette. Chorale is an auditioned upper-level choir comprised of musically advanced sophomores, juniors, and seniors. Advanced incoming freshmen can audition with the recommendation/ suggestion of the director. Chorale focus turns more towards vocal independence in four-part singing with an emphasis on technique, listening, and sight-reading skills that will act as a base for more complex vocal works in the future. This ensemble is designed to refine choral singing ability, sight-reading skill, a Capella singing, and music theory knowledge. In order to participate in this group, the student must have previous choir experience (i.e. at least one year in Concert Choir unless advanced musical skill is shown) and be able to sight-read music, understand musical notation, and have good skill and understanding of proper rehearsal and concert etiquette. The Chorale performs in all school choral and some community events throughout the year.

Soundsation Show Choir
Course Number: 8265 Full Year

9th, 10th, 11th, 12th grade
1 Credit

Prerequisite: Spring audition including vocal and dance assessment.

Soundsation is an auditioned group comprised of singer/dancer's, band, and crew members. Students enrolled perform at choral events at the school, community events and festivals, and compete in competitions. All students must attend mandatory summer camps as well as rehearsals and performances which are graded. This ensemble meets Monday through Friday during the day with MANDATORY after school rehearsals Monday and Wednesday (5:00-7:00 pm). Students are responsible for the costs of costumes and travel, though many fundraising opportunities are available to offset these costs. Students must be registered for Soundsation during the day; those in school-sponsored vocational or CCP may be exempt from this requirement with approval of the director and principal or designee.

Music Technology I**Course Number: 8173 Semester****9th, 10th, 11th grade****.50 Credit****Prerequisite: None**

This semester course is open to all students who would like to create their own electronic music or learn about music production. The course covers the background of the music industry, electronics in music, and techniques of music creation using various computer software. Much emphasis is placed on the creative process and allowing all students, even those without musical background, to create their own music. Students in this class make their own songs and sounds with sequencers, drum machines, sound sampling, MIDI keyboard controllers and more.

Music Technology II**Course Number: 8174 Semester****9th, 10th, 11th Grade****.50 Credit****Prerequisite: Music Technology I**

This semester course is offered to students who have already completed Music Tech I. In this class we explore studio production techniques, media project design, and a wide range of music creation methods. Many creative opportunities will be offered through Music Tech II, including music production, recording, and exploring the many careers available in the music business

SCIENCE

COURSE NUMBER	COURSE	PREREQUISITE	GRADE LEVEL	LENGTH OF COURSE	CREDIT
4100	Physical & Earth Space Science	None	9-10-11-12	Full Year	1
4105	Biology	Completion of Physical & Earth Space Science and Algebra 1 (can be concurrent)	9-10-11-12	Full Year	1
4205	Chemistry	Adv. Algebra 2 (Can be concurrent)	10-11-12	Full Year	1
4315	Physics	Adv. Algebra 2 or Honors Algebra w/Trig. Can be concurrent.	10-11-12	Full Year	1
4328	Environmental Science	Completion of 2 units of Science & Algebra 2 (Can be concurrent)	11-12	Full Year	1
4400	AP Biology	1 unit of Chemistry	11-12	Full Year	1
4405	AP Chemistry	Adv. Algebra 2 or Honors Algebra w/Trig. Can be concurrent	11-12	Full Year	1
4410	AP Physics 1	Adv. Algebra 2 or Honors Algebra w/Trig. Can be concurrent	10-11-12	Full Year	1
4415	AP Physics 2	1 unit of Physics Adv. Algebra 2 or Honors Algebra w/Trig. Can be concurrent	11-12	Full Year	1
4305	Anatomy & Physiology	1 unit each of Bio. & Chemistry	11-12	Full Year	1
4515	Honors Biology	Completion of Alg. 1 & Physical & Earth/Space Science	9-10-11-12	Full Year	1
4518	Honors Chemistry	Adv. Algebra 2 or Honors Algebra w/Trig. Can be concurrent	10-11-12	Full Year	1
4520	Honors Physics	Adv. Algebra 2 or Honors Algebra w/Trig. Can be concurrent	10-11-12	Full Year	1
4516	BIO 1060: Environment, Ecology and Evolution	Biology & Chemistry	11-12	One Semester CCP	1
4210	STEM: Robotics 1	Algebra 1	9-10-11-12	One Semester	.50
4335	STEM-Introduction to Engineering	None	9-10-11-12	One Semester	.50
4336	STEM: Applied Engineering	STEM: Introduction to Engineering	10-11-12	One Semester	.50
7120	Computer Science Principles	C or higher in Algebra 1	10-11-12	Full Year	1

SCIENCE RECOMMENDATIONS

Please review the flow chart for possible science sequences from Grades 9 - 12.

The types of science courses taken by students should be influenced by their long-range goals following high school, as well as their ability and interests. **In forecasting for science courses, students must strongly consider the recommendation of their current science teacher.** Please study the sequence flowchart for science courses carefully as well as review the specific prerequisites listed for courses to determine your options. **Note that many science courses have a math prerequisite.**

Students need three years of science for graduation. Science units must include 1 unit of physical sciences, 1 unit of life sciences and 1 unit advanced study in one or more of the following sciences: chemistry, physics, environmental science, or advanced life or physical science.

Students in a college preparatory sequence should complete at least three years of science in high school including one biological science and one physical science. This could include Physical & Earth/Space Science in the 9th grade followed by Biology, Chemistry, Physics, or Environmental Science in the 10th, 11th, 12th grades. Students with strong math skills and long-range goals in math or science could start with Honors Biology in the 9th grade and progress to Chemistry and/or Physics and/or elective courses such as Anatomy & Physiology. Strongly motivated students are encouraged to consider AP Biology, AP Chemistry, or AP Physics for their junior or senior years.

Science Course Offerings

Suggested sequence: please review Course Descriptions for more information and specific prerequisites.

9 th Grade	10 th Grade	11 th Grade	12 th Grade
PHYSICAL & EARTH/SPACE SCIENCE	BIOLOGY / HONORS BIOLOGY and GROUP A ELECTIVE	CHEMISTRY/HONORS CHEMISTRY or PHYSICS/HONORS PHYSICS or ENVIRONMENTAL SCIENCE and GROUP A ELECTIVE	GROUP A OPTION Or GROUP B OPTION
BIOLOGY OR HONORS BIOLOGY	CHEMISTRY/HONORS CHEMISTRY PHYSICS/AP PHYSICS 1 and GROUP A ELECTIVE	GROUP A OPTION or GROUP B OPTION	GROUP B OPTION

Group A Courses: Computer Science Principles, STEM: Introduction to Engineering, STEM: Applied Engineering

Group B Courses: Environmental Science, Chemistry, Honors Chemistry, Physics, Honors Physics, Physiology, All AP Science Courses

- **Please check the course description to make sure you have the proper Science and Math prerequisites.**
- Students taking Honors Biology as a 9th grader must have a prerequisite of Physical and Earth Science as an 8th grader, or recommendation of science department coordinator.

Physical & Earth/Space Science**9th, 10th, 11th, 12th grade****Course Number: 4100 Full Year****1 Credit**

Prerequisite: None. This course surveys the physical sciences: Chemistry, Physics, and Earth/Space Science. Energy and matter will be the focus of the course, including the study of the composition of matter, changes in matter, forces and motion, energy in systems, and topics in astronomy. This course will stress the development of scientific thinking through problem solving and quantitative analysis. Laboratory activities will be an essential part of this class.

Biology**9th, 10th, 11th, 12th grade****Course Number: 4105 Full Year****1 Credit**

Prerequisite: One full credit of Life Science and Algebra 1 needs to be completed or taken concurrently. Biology is a detailed study of the life sciences. This course is a college preparatory course. Students will explore the major themes of biology including cellular biology, the molecular basis of heredity, evolution, and the diversity of life. There is also an emphasis on scientific procedures and lab techniques. Computer use and technology will be integral to this class.

A standardized End-of-Course (EOC) exam, mandated by the State of Ohio is required for this course. Students must earn a 3 or higher for the Science Seal.

Chemistry**10th, 11th, 12th grade****Course Number: 4205 Full Year****1 Credit**

Prerequisite: Biology or Honors Biology. Advanced Algebra 2 is a prerequisite but can be taken concurrently. This course has a strong laboratory component and emphasizes quantitative analytical skills. Topics covered in the course include scientific method, metric system, atomic structure, development of the concept of the atom, half-life of an isotope, the periodic chart, properties of the elements, stoichiometry, gas laws, states of matter, molecular shapes, chemical bonding energy changes in a chemical system, and thermodynamics. A scientific calculator is a necessity. Computer use and technology will be integral to this class.

Students who earn a final semester grade of a B or higher will earn the Science Seal.

Environmental Science**11th, 12th grade****Course Number: 4328 Full Year****1 Credit**

Prerequisite: Completion of two units of any science and Algebra 2 (can be concurrent).

Environmental Science is an advanced third year course meant for college-bound students. The class is designed as a lab class that explores the environmental sciences including ecosystem structure & function, the interconnected spheres (biosphere, atmosphere, hydrosphere, and lithosphere), population dynamics, resource use, and global environmental issues and impacts. Computer use and technology will be integral to this class. *Students who earn a final semester grade of a B or higher will earn the Science Seal.*

Physics

10th, 11th, 12th grade

Course Number: 4315 Full Year

1 Credit

Prerequisite: Adv. Algebra 2 or Honors Algebra w/Trig. (Can be concurrent.)

This course is designed to prepare the student for further work in science, engineering, or health sciences. It is also a recommended basic science course for college-bound students. In physics there is a great deal of emphasis on analytical problem solving. Physics is the study of matter and energy and their relationship to the physical world. Topics include: classical mechanics (Newton's Laws, rotational motion, momentum, and energy), waves, geometrical optics, and electricity. Laboratory experiments, special projects, and topical readings are an integral part of this course. A scientific calculator is a necessity. Computer use and technology will be integral to this class. *Students who earn a final semester grade of a B or higher will earn the Science Seal.*

Anatomy & Physiology

11th, 12th grade

Course Number: 4305 Full Year

1 Credit

Prerequisite: Biology or Honors Biology and Chemistry or Honors Chemistry.

SUMMER READING, WRITING AND/OR OTHER WORK: STUDENTS WILL BE NOTIFIED

This course should prove helpful to students preparing for a medically oriented career. Prospective nurses, laboratory technicians, physical therapists and physicians can use this as a preparatory course. Modern physiology includes the study of the anatomy of the body, and studies of the functions of the body utilizing the sciences of physics and chemistry. Enzyme action, digestion, muscle and nerve action, respiration and other functions of the body are studied. Computer use and technology will be integral to this class.

NOTE: In any physiology class offered at Brush, dissection is a major lab component. If you are not able to perform a dissection, then you should not take a physiology class. Students who earn a final semester grade of a B or higher will earn the Science Seal.

STEM-Introduction to Engineering

9th, 10th, 11th, 12th grade

Course Number: 4335 One Semester

.50 credit

Prerequisite: none

The focus of this course is the engineering design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students will use 3D modeling software to help them design solutions to solve problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community. Students will work on projects and solve problems dealing with topics such as: positive messaging, truss structures, architecture, programming, computer-aided design and manufacturing, biospherics, and more. Students choosing this course should have a strong interest in science and mathematics. Computer use and technology will be integral to this class.

STEM: Applied Engineering**10th, 11th, 12th****Course Number: 4336 One semester****.50 credit****Prerequisite: STEM: Introduction to Engineering**

The focus of this course is to further explore the engineering design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students will use 3D modeling software to help them design solutions to solve problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community. Students will work on projects and solve problems dealing with topics such as: architecture, programming, robotics, computer aided design and manufacturing, biospherics, and more. Students choosing this course should have a strong interest in science and mathematics. Computer use and technology will be integral to this class.

STEM: Robotics 1**9th, 10th, 11th, 12th****Course number: 4210 One Semester****.50 Credit****Prerequisite: Successful completion of Algebra 1**

Throughout this semester-long course, students will create a robot and utilize tools for self-growth in technical skill development and engineering design thinking. The semester culminates in an event where students present what they've learned and use their robot to compete in a class mini-game aligned with the FIRST® Tech Challenge. Students will learn about project management, safety, and the engineering design process. Students will also learn about robot systems (chassis, electrical, and manipulator design) and computational thinking (decomposition, data types, and algorithms). Students should have a strong interest in science and mathematics. Computer use and technology will be integral to this class.

Computer Science Principles**10th, 11th, 12th grade****Course Number: 7120 One Semester****1 Credit****Prerequisites: "C or higher" in Algebra 1**

The course will include the fundamentals of computing, (including problem solving), working with data, understanding the Internet, cybersecurity, and programming. The goal of this course is to broaden the skills for future study or for a career in computer science or other STEM fields.

Students who take and pass both semesters of this course will earn the Technology Seal.

SCIENCE HONORS/ADVANCED PLACEMENT PROGRAM**Honors Biology****9th, 10th, 11th, 12th grade****Course Number: 4515 Full Year****1 Credit****SUMMER READING, WRITING, AND/OR OTHER WORK: STUDENTS WILL BE NOTIFIED**

Prerequisite: One full credit of Physical & Earth Science and Algebra 1, or recommendation of science department coordinator. Honors Biology is a rigorous course that follows the topics of Biology but with a fast pace and greater depth. Topics include evolutionary biology, diversity and interdependence of living things, cellular biology, and the molecular basis of heredity. Emphasis is placed on the use of the microscope and the comparative anatomy and physiology of different organisms. There is also an emphasis on proper lab technique and technology. This is an excellent course to take for students who are interested in taking AP Science classes in later years, though it is not a prerequisite for these classes. A Scientific Calculator is a necessity. Computer use and technology will be integral to this class. ***A standardized End-of-Course (EOC) exam, mandated by the State of Ohio is required for this course. Students must earn a 3 or higher for the Science Seal.***

Honors Chemistry**10th, 11th, 12th grade****Course Number: 4518 Full Year****1 Credit****Prerequisite: Advanced Algebra 2 or Honors Algebra 2 with Trig. (Can be concurrent.)****SUMMER READING, WRITING AND/OR OTHER WORK: STUDENTS WILL BE NOTIFIED.**

Honors Chemistry is a rigorous course that follows the topics of general Chemistry but with a faster pace and greater depth. Greater emphasis is placed on the mathematical treatment of chemical topics, such as equilibrium, acid-base, and thermodynamics. This is an excellent course for students who are interested in taking AP Science classes in later years, though it is not a prerequisite for these classes. A Scientific Calculator is a necessity. Computer use and technology will be integral to this class. *Students who earn a final semester grade of a B or higher will earn the Science Seal.*

Honors Physics**10th, 11th, 12th grade****Course Number: 4520 Full Year****1 Credit****Prerequisite: Advanced Algebra 2 or Honors Algebra 2 with Trig. (Can be concurrent.)****SUMMER READING, WRITING AND/OR OTHER WORK: STUDENTS WILL BE NOTIFIED.**

Honors Physics is a rigorous course that follows the topics of Physics but with a faster pace and greater depth. The student should have an excellent working knowledge of Algebra. Topics include: classical mechanics (Newton's Laws, rotational motion, momentum, and energy), waves, geometrical optics, and electricity. This course is designed to prepare the student for further work in science, engineering, or health sciences. This course will prepare students for the AP Physics 1 course. In physics there is a great deal of emphasis on analytical problem solving. A scientific calculator is a necessity. Computer use and technology will be integral to this class. *Students who earn a final semester grade of a B or higher will earn the Science Seal.*

Advanced Placement Physics 1**10th, 11th, 12th grade****Course Number: 4410 Full Year****1 Credit****Prerequisite: Advanced Algebra 2 or Honors Algebra 2 with Trig. (Can be concurrent.)****SUMMER READING, WRITING AND/OR OTHER WORK: STUDENTS WILL BE NOTIFIED.**

AP Physics 1 is a rigorous course that follows the College Board AP Physics 1 curriculum. The student should have an excellent working knowledge of Algebra. Topics covered will include dynamics, statics, rotational dynamics, projectile motion, torque, momentum, electricity, sound, and energy. This course is designed to prepare the student for further work in science, engineering, or health sciences. This course will prepare students for the AP Physics 1 test and the AP Physics 2 course. In physics there is a great deal of emphasis on analytical problem solving. A scientific calculator is a necessity. Computer use and technology will be integral to this class. *Students enrolled in Advanced Placement course(s) are REQUIRED to take the Advanced Placement Exam. Students who earn a final semester grade of a B or higher will earn the Science Seal.*

Advanced Placement Biology
Course Number: 4400 Full Year

11th, 12th grade
1 Credit

Prerequisite: Chemistry or Honors Chemistry and above-average achievement in all science classes SUMMER READING, WRITING AND/OR OTHER WORK: STUDENTS WILL BE NOTIFIED.

The course meets for 1 period every day. The AP Biology course is the equivalent of an introductory biology course taken by biology majors during their first year in college. The course includes advanced concepts at the college level and utilizes laboratory skills and techniques, which relate these concepts. A Scientific Calculator is a necessity. Computer use and technology will be integral to this class. One of the objectives of the program is to prepare the student to achieve well enough on the standard Advanced Placement Exam (given in the spring) to place out of the first year of college course in biology.

Students enrolled in Advanced Placement course(s) are REQUIRED to take the Advanced Placement Exam. Students who earn a final semester grade of a B or higher will earn the Science Seal.

Advanced Placement Chemistry
Course Number: 4405 Full Year

11th, 12th grade
1 Credit

Prerequisite: Chemistry or Honors Chemistry and above-average achievement in science classes and Advanced Algebra 2 or Honors Algebra 2 with Trig.(Can be concurrent.)

SUMMER READING, WRITING AND/OR OTHER WORK: STUDENTS WILL BE NOTIFIED The course meets for 1 period every day.

The AP Chemistry course is a second year course in chemistry. It is the equivalent of the first year chemistry course in college. The course includes advanced concepts at the college level and utilizes laboratory skills and techniques, which relate these concepts. A Scientific Calculator is a necessity. Computer use and technology will be integral to this class. One of the objectives of the program is to prepare the student to achieve well enough on the standard Advanced Placement Exam (given in the spring) to place out of the first year college course in chemistry.

Students enrolled in Advanced Placement course(s) are REQUIRED to take the Advanced Placement Exam. Students who earn a final semester grade of a B or higher will earn the Science Seal.

Advanced Placement Physics 2
Course Number: 4415 Full Year

11th, 12th grade
1 Credit

Prerequisite: Advanced Algebra 2 or Honors Algebra 2 with Trig. (Can be concurrent.)

AP Physics 1 or Physics with AP Teacher approval, and above average achievement in science classes. SUMMER READING, WRITING AND/OR OTHER WORK: STUDENTS WILL BE NOTIFIED

The course meets for 1 and 1/2 periods every day. AP Physics is based on a course that provides a systematic introduction to the main principles of physics and emphasizes the development of problem-solving ability. The course will be the equivalent of an introductory physics course at the college level that uses advanced algebra and trigonometry as the primary tools for problem solving. Topics covered include the following: waves, sound, electricity, magnetism, fluids, thermodynamics, optics, quantum theory, and nuclear physics. A Scientific Calculator is a necessity. Computer use and technology will be integral to this class. One of the objectives of the program is to prepare the student to achieve well enough on the standard Advanced Placement Exam (given in the spring) to place out of the first year college course in physics.

Students enrolled in Advanced Placement course(s) are REQUIRED to take the Advanced Placement Exam. Students who earn a final semester grade of a B or higher will earn the Science Seal.

BIO-1060 Lecture and Lab: Environment, Ecology, and Evolution 11th, 12th grade**Course Number: 4516 One Semester CCP****1 Credit****Prerequisite: Biology or Honors Biology, and Chemistry or Honors Chemistry**

This is a high school/college credit course that meets at Brush High School in cooperation with Cuyahoga Community College. Students will earn 4 semester hours of college credit for successful completion of the course. Designed for non-science majors. Questions about the natural world are explored through an introduction to the principles of evolution and ecology, including how populations change over time and how organisms interact with each other and the environment. Topics include scientific inquiry; nature of science; evolutionary processes; diversity of life; population, community, and ecosystem ecology; human impacts on the environment; environmental stewardship; and regional environmental concerns. Students must adhere to the College Credit Plus policies and timelines in order to enroll for the coming academic year. ***Students who earn a final semester grade of a B or higher will earn the Science Seal.***

SOCIAL STUDIES

Successful completion of World History, United States History, and Government, for a total of three (3) credits is required for graduation. Electives should also be considered for additional credit.

COURSE NUMBER	COURSE	PREREQUISITE	GRADE LEVEL	LENGTH OF COURSE	CREDIT
2105	World Influences on the West	None	9	Full Year	1
2100	+Honors World History	None	9	Full Year	1
2260	U.S. History	World Influences	10	Full Year	1
2200	+AP U.S. History	World Influences	10	Full Year	1
2520	~African/Amer. History I	World/US	10-12	Semester	.50
2521	~African Amer. History II	World/US	10-12	Semester	.50
2300	+~AP Euro History	World/US	11-12	Full Year	1
2405	Government & Society	World/US	11-12	One Semester	.50
7141	Financial Literacy	World/US	11-12	One Semester	.50
2400	+AP Govt. & Politics	World/US	12	Full Year	1
2250	~Human Relations	None	11-12	One Semester	.50
2350	~Psychology	World/US	11-12	One Semester	.50
2355	+~AP Psychology	Psychology	12	Full Year	1
2430	~Topical Issues	World/US	12	One Semester	.50

+Students are selected for this class

~This class does not count towards the 3 year Social Studies requirement for graduation.
(Elective Only)

SOCIAL STUDIES ELECTIVE COURSES

COURSE NUMBER	COURSE	PREREQUISITE	GRADE LEVEL	LENGTH OF COURSE	CREDIT
2520	African American History I	World/US	11-12	One Semester	.50
2521	African American History II	World/US	11-12	One Semester	.50
2400	AP Euro. History	World/US	11-12	Full Year	1
2250	Human Relations	None	11-12	One Semester	.50
2350	Psychology	World/US	11-12	One Semester	.50
2430	Topical Issues	World/US	12	One Semester	.50
2355	AP Psychology	Psychology	12	Full Year	1
2525	The Other America	World/US	11-12	One Semester	.50
2530	Social Justice and Anti-Racism	None	11-12	One Semester	.50

World Influences on the West Course Number: 2105 Full year

**9th grade
1 Credit**

World Influences on the West is a survey of our world's political, economic, social and cultural developments. Emphasis of the course will be on the newly aligned content standards from the Scientific Revolution/Enlightenment period forward to the modern world. The course will address topics in the fields of history, geography, economics, and political science, as well as focus on developing strong non-fiction reading and writing skills.

United States History Course Number: 2260 Full year

**10th grade
1 Credit**

United States History is a survey of political, economic, social and cultural developments in the United States. Emphasis will be on the newly aligned content standards for the Progressive Era forward to modern applications of US policy. The course will address topics in the fields of history, geography, economics, and political science, as well as focus on developing strong non-fiction reading and writing skills. ***A standardized End-of-Course exam, mandated by the State of Ohio is required for this course. Students must earn a 3 or higher on both the US History and the Government EOC for the Citizenship Seal. Students can also earn a final semester grade of B or higher in both United States History and Government to earn the Citizenship Seal.***

Government and Society Course Number: 2405 Semester

**11th, 12th grade
.5 Credit**

Government and Society is a survey course integrating the study of political science, sociology and economics (with an emphasis on financial literacy). Areas of study include the Constitution (US and Ohio), branches of government, federalism, the political process, civil rights and civil liberties, state and local government actions, role of the media, sociology, economics and financial literacy. The course will focus on developing strong non-fiction reading and writing skills.

A standardized End-of-Course exam, mandated by the State of Ohio is required for this course. Students must earn a 3 or higher on both the US History and the Government EOC for the Citizenship Seal. Students can also earn a final semester grade of B or higher in both United States History and Government to earn the Citizenship Seal.

Financial Literacy**Course Number: 7141 One Semester****11th, 12th grade****.50 Credit**

This course will inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets using checking and saving accounts, and will gain knowledge in finance, debt and credit management, and will evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions leading to financial independence.

SOCIAL STUDIES HONORS/ADVANCED PLACEMENT PROGRAM**Honors World History****Course Number: 2100 Full year****9th grade****1 Credit****Prerequisite: Application Process**

Honors World History is designed for 9th grade students who plan to apply for entrance into the AP Social Studies Program (grade 10 - 12) Enrollment in Honors World History DOES NOT ensure that a student will be enrolled in the A.P. Program in grade 10. Honors World History is also NOT a requirement for entrance into the A.P. Program. Honors World History is intended for the superior student who desires an intellectual challenge in the study of world history.

Honors World History employs strategies (emphasis on primary sources, etc.) and supplementary materials that are effective and challenging to students electing this program. A strong emphasis is placed on questioning and writing, and students should expect individual and class assignments to go well beyond the general level. A brief review of classical and early modern World history gives way to coverage of the Enlightenment period forward to the modern world and will be addressed using the areas of history, geography, economics, government, people in societies, citizenship responsibility, and social studies skills and methods. **(Summer reading is required for this course, with the assignment due on the 1st day of school.)** A fee is required for materials.

Advanced Placement United States History (APUSH)**Course Number: 2200 Full year****10th grade****1 Credit****Prerequisite: Honors World History**

APUSH is college-level in nature, scope and intensity of instruction and textual materials, and is intended for students desiring a greater intellectual challenge in the study of US History. The course is designed to prepare the student for the College Board examination (the instrument most colleges utilize in determining and recognizing a student's success for purposes of advanced credit) which the student is required to take in May of the school year. Areas of study include the survey of US history from its colonial beginnings to the current period with emphasis on important periods of development and the examination of various prominent themes. Because of the intensive, in-depth reading and writing demands of this course, letter grades are weighted. Students entering this class must be highly motivated, exhibit an enthusiasm for extensive and varied study of American history, and possess an interest in exchanging ideas and challenging assumptions that appear in primary and secondary sources. **(Summer work is required for this course: the assignment will be given prior to the end of the school year and collected the first day of class.)** *Students enrolled in Advanced Placement course(s) are REQUIRED to take the Advanced Placement Exam. Students can also earn a final semester grade of B or higher in both United States History and Government to earn the Citizenship Seal.*

Advanced Placement European History**11th, 12th grade****Course Number: 2300 Full year****1 Credit****Prerequisite: World History/US History (B Average)**

AP Modern European History is college level in nature, scope and intensity of instruction, textual materials, etc., and is intended for superior students who desire a greater intellectual challenge in the study of European history. It ultimately prepares the student for the College Board examinations, the instrument most colleges utilize in determining and recognizing a student's success for purposes of advanced credit. Areas of study include the survey of European history from 1450 to current with emphasis on important periods of development and the examination of various prominent themes. Because of the intensive, in-depth reading and writing demands of this course, letter grades are weighted.

Students enrolled in Advanced Placement course(s) are REQUIRED to take the Advanced Placement Exam.

Advanced Placement Government and Politics**12th grade****Course Number: 2400 Full year****1 Credit****Prerequisite: World and US History (B average)**

AP Government and Politics is college-level in nature, scope and intensity of instruction and textual materials, and is intended for students desiring a greater intellectual challenge in the study of American government and politics. The course is designed to prepare the student for the College Board examinations (the instrument most colleges utilize in determining and recognizing a student's success for purposes of advanced credit) which the student is required to take in May of the school year. Areas of study include American constitutional foundations, political philosophy, federalism, civil rights and civil liberties, branches of government, and the policy making process with emphasis on important periods of development and the examination of various prominent themes. Because of the intensive, in-depth reading and writing demands of this course, letter grades are weighted. Students entering this class must be highly motivated, exhibit an enthusiasm for extensive and varied study of the political process, and possess an interest in exchanging ideas and challenging assumptions that appear in primary and secondary sources.

Students enrolled in Advanced Placement course(s) are REQUIRED to take the Advanced Placement Exams. Students can also earn a final semester grade of B or higher in both United States History and Government to earn the Citizenship Seal.

SOCIAL STUDIES ELECTIVE COURSES

Electives are offered in the Social Studies Program to provide both enrichment and extension into areas of personal interest and future professional responsibility. These courses do NOT fulfill the Social Studies graduation requirements, but they DO count as electives toward graduation.

Human Relations**11th, 12th grade****Course Number: 2250 Semester****.50 Credit**

Human Relations provides an atmosphere conducive to the exploration of personal values, attitudes and behaviors, with the encouragement of self-understanding and self-awareness. A basic objective of the course is to reveal the basis and cause of personal prejudice and to support individuals in the process of growth and development. Methods employed in Human Relations include a multimedia approach with greatest emphasis on the full length feature film, the development of a democratic atmosphere in the classroom, the employment of group development techniques to provide support for individual members of the groups, a completely inductive approach to learning, and the open exchange of views, attitudes and opinions.

African American History I and II
Course Numbers: 2520/2521 Semester

11th, 12th grade
.50 Credit each

Prerequisite: World and US History (C+ average)

African American History I and II are two courses covering the history of African Americans. African American History I covers the period of Slavery to 1900 the Civil Rights Movement (1865-1950) while African American History II covers the period from 1900 to present day. the Civil Rights Movement to the present day (1950-current). Both courses will examine socio-political patterns, including education and immigration, and struggles as well as triumphs. Students will analyze African American roles in the military, in government, and in the economy. African American contributions to literature and the arts will be included; as both courses require the reading of a number of primary and secondary sources, some as lengthy as a novel. These sources were authored by leading African Americans in the 19th and 20th century. A research paper is also a major portion of the grade for each of these courses.

The Other America

11th, 12th grade
.50 credit

Course numbers: 2525 Semester

Prerequisite: Completion of World and U.S. History

This course studies American History from the perspective of the Immigrants that came to America after the Nativist Movement, the women, and the Natives who were here well before European exploration. The class analyzes and questions the role of assimilation, accommodation and the struggle to retain a unique culture in the American landscape. (A look at America from the laborers, the suffragists and those seeking to acquire their piece of the American Dream.) During the course students will examine Chinese immigration and the struggles on the Pacific Coast; look at women and their role in American history; the Cult of True Womanhood and the role women played in the building of our society; Irish immigrants and the Native Americans and others. The course is geared towards students who wish to enlarge their world perspective, hone their writing skills, debate and discuss topics of immigration and emigration in America.

Psychology

11th, 12th grade
.50 Credit

Course Number: 2350 Semester

Prerequisite: World and US History (C+ average)

This course introduces students to the social science of psychology. It offers the student the opportunity to study the mind, behavior, mental health, and human personality development. Areas of study include scientific methods, brain and nervous system, perception, learning, child/adolescent/adult psychology, and memory and intelligence. By the end of the course, students will better understand the complex factors that help make people who they are.

Topical Issues

12th grade
.50 Credit

Course number: 2430 Semester

Prerequisite: World and US History (C+ average)

Each semester of Topical Issues is designed as two (2) nine-week seminars on topics of interest and relevance to today's young adults. Examples include Heroic Leadership, History and the Movies, Politics and the Olympics. Student research is a major component of this course

Advanced Placement Psychology**Course Number: 2355 Full year****12th grade****1 Credit****Prerequisite: Psychology**

AP Psychology is college-level in nature, scope and intensity of instruction and textual materials, and is intended for students desiring a greater intellectual challenge in the study of psychology. The course is designed to prepare the student for the College Board examination (the instrument most colleges utilize in determining and recognizing a student's success for purposes of advanced credit) which the student is required to take in May of the school year. This course will introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students will be exposed to the psychological facts, principles, and phenomena associated with each of the major subfields of psychology; they will also learn about the ethics and methods psychologists use in their science and practice. Because of the intensive, in-depth reading and writing demands of this course, letter grades are weighted. Students entering this class must be highly motivated, exhibit an enthusiasm for extensive and varied study of history, and possess an interest in exchanging ideas and challenging assumptions that appear in primary and secondary sources. Summer work is required for this course: the assignment will be given prior to the end of the school year and collected on the first day of class. *Students enrolled in Advanced Placement course(s) are REQUIRED to take the Advanced Placement Exam.*

Social Justice and Anti-Racism**Course Number: 2530 One Semester****11th, 12th grade****.50 Credit****Prerequisite: None**

This course in Social Justice is taught through the school's Language Arts and Social Studies departments and is designed for upperclassmen. This course allows students to explore the societal injustices that permeate our nation's history as well as the current world in which we live. The campaigns, movements, and people who sought, and continue to seek the creation of a more equitable society will be examined. Students will evaluate the inequalities from the past in order to analyze the current racial strife that endures economically, politically and socially in our nation. A large component of this course will be to assist students in finding their own agency, giving them the skills to understand, express, and finally, to create necessary and lasting changes in their community, and in their country. Co-Curricular class with ELA.

WORLD LANGUAGES

COURSE NUMBER	COURSE	PREREQUISITE	GRADE LEVEL	LENGTH OF COURSE	CREDIT
5140	Amer. Sign Language (ASL I)	None	9-10-11-12	Full Year	1
5240	Amer. Sign Language II (ASL II)	American Sign Language I	9-10-11-12	Full Year	1
5100	French I	None	9-10-11-12	Full Year	1
5105	French II	French I	9-10-11-12	Full Year	1
5200	French III	French II	10-11-12	Full Year	1
5300	French IV	French III	11-12	Full Year	1
5400	French V (Honors)	French IV	12	Full Year	1
5120	Spanish I	None	9-10-11-12	Full Year	1
5125	Spanish II	Spanish I	9-10-11-12	Full Year	1
5210	Spanish III	Spanish II	10-11-12	Full Year	1
5310	Spanish IV	Spanish III	11-12	Full Year	1
5410	Spanish V(Honors)	Spanish IV	12	Full Year	1

Successful studies of world languages can lead to varied career opportunities especially in business fields. It is suggested that a student entering World Language study be doing satisfactory work in English. All world language courses are recommended for college-bound students. Some colleges require 2-3 years of a world language. Please check the college or university website for admission requirements.

American Sign Language (ASL I)

9th, 10th, 11th, 12th grade

Course Number 5140

1 Credit

During this beginning course, students will learn first year skills for communicating with sign language (letters, colors, numbers, basic communication sentences), and will gain a knowledge of common language skills to communicate with the deaf community. This course is designed to be delivered over video conferencing and is supplemented by daily taped recordings of each class period which archive the instructional process. Additional online components will be associated with this course each week. The instructor will require students to complete and post assignments via the internet. Workbook fee (TBD)

American Sign Language (ASL II)

9th, 10th, 11th, 12th grade

Course Number 5240

1 Credit

Prerequisite: ASL I

Continuation of ASL I, this is a further study and application of sign language. This course develops a deeper knowledge of ASL grammar and the Deaf culture. Students will demonstrate an understanding of their own cultures as compared to that studied and recognize distinctive viewpoints from both cultures. Students will provide cultural instruction and/or entertainment within and outside of the school district.

NOTE: Students will be expected to attend at least one approved scheduled event for observation of sign language in use outside of school hours and report back to the class in both written and signed formats. Daily live instruction via video conferencing will be supplemented by daily taped recordings of each class period which archive the instructional process.

Workbook/textbook fee TBD.

French I**Course Number: 5100 Full Year****9th, 10th, 11th, 12th grade****1 Credit**

French is a global language, which means they don't just speak it in France. It's the official language in 29 countries and is the sixth-most spoken language in the world. It's also the second-most learned language in the world--and the third most spoken language in Africa next to Swahili and Arabic--with over 220 million speakers. So you won't just be in good company while you're taking this class, you'll also be French speaker number 220,000,001! The basic objectives of French 1 are to help each student attain proficiency in the four skills of listening, speaking, reading, and writing. The language is presented within the context of the contemporary French-speaking world and its culture. Studies of the French-speaking African countries--Senegal, Morocco, and Mali--and our neighbor to the north--Canada--are the focus in French 1.

French II**Course Number: 5105 Full Year****9th, 10th, 11th, 12th grade****1 Credit****Prerequisite: French I**

French 2 immerses students in the francophone world via interpretive tasks, cultural readings, and authentic images and videos. Aligned to ACTFL World-Readiness Standards, the French 2 curriculum takes students from a Novice/Mid- to a Novice/High-level of proficiency. The curriculum continues cultural studies of French-speaking countries of Africa (Ivory Coast, Chad, and Madagascar) and introduces students to the poetry of Senegalese writers. The course begins with a review of the previous year's content.

French III**Course Number: 5200 Full Year****10th, 11th, 12th grade****1 Credit****Prerequisite: French II**

French 3 curriculum takes students into the future--the future tense, among other verb tenses studied. Students continue to speak with a high level of fluency and proficiency. Specific topics include: summer vacation, camping, household chores, and digital messaging in French. Our international voyage continues to French Polynesia, New Caledonia, and Vanuatu. Bon voyage!

French IV**Course Number: 5300 Full Year****11th, 12th grade****1 Credit****Prerequisite: French III**

This course emphasizes composition and conversational skills. The students will study French history, short stories, poetry, and plays. Students will complete several projects on regions and cities in France, as well as major cities in Africa (Brazzaville, Congo) and in North America (Quebec, Canada).

French V (Honors)**12th grade****Course Number: 5400 Full Year****1 Credit****Prerequisite: French IV **Pending Enrollment****

Each of the six units in Honors French 5 are based on a sub-theme of one of the AP® themes: Contemporary Life, Families and Communities, Beauty and Aesthetics, Science and Technology, Personal and Public Identities, and World Challenges. In Honors French 5, we explore these sub-themes: Personal Beliefs, Global Citizenship, Way of Life, Social Consciousness, Discoveries and Inventions, and Language and Literature. Studies of products, practices, and perspectives pique students' curiosity. Included activities teach students to notice cultural similarities and differences, draw conclusions, or make inferences about the evidence they see. AP® is a trademark registered by the College Board.

Spanish I**9th, 10th, 11th, 12th grade****Course Number: 5120 Full Year****1 Credit**

This course is an introduction to the basic structures of Spanish. Lessons are designed to enable the student to learn the language while also learning about the cultures of those who are from Spanish-speaking countries. An on-going study of Spanish pronunciation is apparent throughout the course as the student learns vocabulary focused on practical, thematic content. The present tense in regular, irregular, and command forms is taught and will serve as a foundation for the learning of more verb tenses in higher-level courses. An introduction to the preterit tense occurs in the second semester. Many students find that the subject matter here helps them to understand the mechanics of their own language.

Spanish II**9th, 10th, 11th, 12th grade****Course Number: 5125 Full Year****1 Credit****Prerequisite: Spanish I**

Spanish II emphasizes an improved competence in the four language skills; listening, speaking, reading, and writing. Likewise, an appreciation for Hispanic culture and influence is cultivated through the study of the Spanish-speaking countries of the world while developing communicative skills. Pronunciation, reading, and vocabulary expansion are stressed at this level, and the student is encouraged to make connections between his or her own personal experiences and the content of this course.

Spanish III**10th, 11th, 12th grade****Course Number: 5210 Full Year****1 Credit****Prerequisite: Spanish II**

This course is designed to review the basic Spanish grammar elements, to improve the student's skill in using the grammar, and develop conversational and reading abilities in Spanish. The student continues to study Hispanic culture and civilization with special emphasis on making connections between the similarities and differences of the Spanish-speaking world and our local and national identities. Reading comprehension, self-expression, and cultural appreciation are reinforced through references to contemporary works of art and literature as well as journalism.

Spanish IV**11th, 12th grade****Course Number: 5310 Full Year****1 Credit****Prerequisite: Spanish III**

In the fourth year, the student works toward refining his or her communication skills to an advanced level. High expectations are maintained as grammatical structures are reviewed and practiced in order to improve listening and speaking skills; other elements of the language and culture are also studied. The student reads works of Peninsular and Hispano-American literature and poetry with the goal of improving reading and writing skills, as well as developing a better understanding of foreign cultures. Authors studied include Unamuno, Lorca, Borges, and Cela.

Spanish V (Honors)**12th grade****Course Number: 5410 Full Year****1 Credit****Prerequisite: Spanish IV ***Pending Enrollment*****

Honors Spanish V provides intensive practice of all the skills needed to understand authentic written, audio and video sources in order to deepen the student's understanding of other peoples and cultures. In addition to grammatical and literary studies, there is also an emphasis on the historical, political, and social movements of the contemporary Hispanic world. A high degree of oral fluency and composition ability is desired so that the student can communicate on the level of educated Spanish speakers and be understood by a heritage speaker of Spanish.



Charles F. Brush High School

Community Service Verification Form

(Brush High School has the right to verify all information submitted.)

Guidelines for Community Service Credit:

Per South Euclid Lyndhurst School District's policy, students must complete a minimum of ten (10) community service hours for each year enrolled at Brush High School in order to fulfill graduation requirements. Students should submit at least the minimum number of hours at the end of each year. It is recommended that senior students have their total amount of required community service hours for graduation submitted at the end of Semester 1 of their senior year. **Students not fulfilling this requirement will not receive a diploma.**

Community service work shall be voluntary with no payment rendered for service and must be completed outside of normal school hours. **Service credit will only be accepted from NON-PROFIT organizations and/or for ELDERLY or DISABLED Individuals that are not capable of performing the work themselves.** No service credit will be granted for work completed for students' immediate family (parents, siblings, aunts/uncles, grandparents, cousins, etc.)

Community Service Verification Forms should be completely filled out and signed by the individual or Non Profit organization making sure to include a contact phone number for verification purposes. **Students are urged to turn in completed forms into the Guidance Office upon completion of EACH service activity. Students are expected to maintain a copy of this form for their records.**

Student's Name: _____ Graduation Year: _____

Organization/Individual Name: _____

Address of Organization/Individual: _____

City: _____ Telephone Number: _____

Date Started: _____ Date Completed: _____

Total Hours Completed: _____ Brief Description of Activity/Service: _____

Signature: Non-Profit Organization or Elderly/Disabled Individual

Date

Signature: Student – By signing, you hereby verify that the above information is true and accurate, and that no payment was rendered for the community service project herein described.



Charles F. Brush High School Student Engagement Graduation Seal (Local) Verification Form
(Brush High School has the right to verify all information submitted)

Musical/Play Participation

{Completion of ONE (1) will satisfy the requirements of the Student Engagement Graduation Seal}

- Successful participation (as determined by the production director*) in 2 school produced musicals; **or**
- Successful participation (as determined by the production director*) in 2 school produced plays; **or**
- Successful participation (as determined by the production director*) in 1 school produced musical and 1 school produced play.

**criteria established by production director and administration*

OR

Athletics Participation, including Marching Band and or Cheerleading

{Completion of ONE (1) will satisfy the requirements of the Student Engagement Graduation Seal}

- Earn a Varsity Letter; **or**
- Complete 2 seasons of athletics, including marching band and or cheerleading (confirmed by the Head Coach and the Athletic Director/Marching Band Director)

OR

Extracurricular Activities

{Completion of ONE (1) will satisfy the requirements of the Student Engagement Graduation Seal}

- Participate in four clubs (confirmed by the club advisor**); **or**
- Participate four years in the same club (confirmed by the club advisor**)

***criteria established by club advisor and administration*

Verification Forms must be filled out completely and signed by the club advisor, music or production director or athletic coach and the principal, supervisor, or organization designee. Students are encouraged to submit completed forms to the Guidance Office upon completion of production or activity participation. Students are expected to maintain a copy of this form for their records.

Student's Name: _____ Graduation Year: _____

Advisor/Director/Coach Name: _____

Advisor/Director/Coach Address: _____

Advisor/Director/Coach Email: _____ Number: _____

Date Started: _____ Date Completed: _____

Total Hours Completed: _____ Description of Production or Activity: _____

Signature: Advisor/Director/Coach

Date

Signature: Principal/Supervisor/Organizational Designee

Date



SOUTH EUCLID LYNDHURST SCHOOLS

The Destination School Community