

RUSH EDUCATION

*Focused on
individualization,
skill development,
and competitive
competence.*



OUR SCALABLE HIGH-PERFORMANCE MODEL FOR DEVELOPING

LEARNING SKILLS • COMPETITIVE COMPETENCE • SOCIAL / CULTURAL AWARENESS

MULTIPLE 2-HOUR BLOCK TRAINING DELIVERY SYSTEM



STUDENT ENTRY POINT

BLENDED
LEARNING



SPORT DISCIPLINE

RUSH SOCCER

REQUIRED
PARTICIPATION
FOR COLLEGE
PATH



AREAS OF TRAINING/SPECIALIZATION

ACADEMIC DISCIPLINES

READING / COMPREHENSION
WRITING / MEMORIZATION
LANGUAGES / SCIENCE / MATH
TECHNOLOGY / ENGINEERING



= HIGH PERFORMING
INDIVIDUAL

DELIVERABLES WITHIN THE SYSTEM ARE:

Passion / Focus / Intensity / Respect / Responsibility / Individuality
Repetition / Work Load / Specificity / Variation
= High Performance Learning



OUR SCALABLE MODEL FOR LEARNING

We are excited to share the unique RUSH Education experience with you. Our learning methodology is different from most, in that we believe that every student must have a specialization of interest when entering into our environment. That specialization, or passion, is the connecting point for engagement with each individual student. It's at this place where the learning process begins.

We are strong believers that a dynamic learning culture is achieved when the soft and practical skills of an individual are developed, then applied, and measured within a competitive platform.

Individualization, skill development, and competitive competence are at the forefront of our learning model. We value the strong connection that our programs make with students.

With more than 35 years in education, our school's blended approach ensures those who participate receive an excellent education, have the opportunity to attend some of the finest universities in the United States, and become life-long learners with a keen interest in high achievement. RUSH Education and its principals have placed hundreds of students in colleges and universities throughout the United States, many on an athletic and academic scholarship.

OUR SCHOOL MEETS THE HIGHEST STANDARDS OF EXCELLENCE.

RUSH Education is a registered accredited educational brick-and-mortar school with traditional classroom instruction utilizing an accredited curriculum. RUSH Education is accredited by the *AdvancED-Cognia Accreditation Commission*, the *NCA Commission on Accreditation and School Improvement*, the *Northwest Accreditation Commission*, and the *SAC's Commission on Accreditation and School Improvement*.

It is important to us that every student has a passion and an area of focus. At the crux of our approach are three blended elements: **Sports, Academics, and the Arts.**

Within each of these components, there are subjects of specialty, or focus, for example, soccer, engineering,

math, coding, writing, languages, acting/improvisation, voice, instrument, reading, music writing, music for film, photography, drawing, painting, sketching, dance, and culinary. Within the areas of specialty, the student participates in their area of major 5 hours per day in one 2-hour and one 3-hour block of time. The other segments of the model are the core required studies. The student participates in core studies 6 hours per day in 2-hour blocks of time.

Core studies include Math, English, Science, Social Studies, World Languages, Fine Art, and Physical Education. RUSH Education is a skill-oriented competitive learning-based program.

We currently operate a highly regimented and customized brick-and-mortar delivery with a very low student to teacher ratio of 6:1-8:1 as well as 20:1 lecture sessions. Each student attends class 5.5-6 hours per day Monday through Friday. In addition, attendees study in their discipline of choice, utilizing on-site facilities, for 5 hours per day.

Monday-Friday, the typical day is 2 hours of academics and 2 hours of sport, art or academic academy training in the morning, followed by 2 hours of academics and 2 hours of sports training in the afternoon.

We also offer Saturday classes for those wanting to advance or in need of further individualized support.



ADMISSIONS

OUR ADMISSIONS COORDINATORS ARE HERE TO HELP

RUSH Education's mission is to create and promote a passion-driven learning environment for young individuals and their families by providing best-in-class coaches, facilities, programs, educators, and methodologies that will provide the highest levels of training and education. Below is information on the procedure and documentation RUSH Education needs to get your child started, and the resources needed upon arrival.

The *Director of Education* will invite your family and the potential student to a video conference to understand your family's needs and present an overview of our academic curriculum. Upon agreement to move forward, a full-time student must pay a registration fee to secure their enrollment spot.

1. Admissions Department sends all forms and applications to the parents

- Welcome letter
- Registration Application
- School Calendar & Supplies List

2. Report Cards and Transcripts

- Each family will supply an academic transcript from the student's previous school.
- High school students must send a transcript from 8th grade.
- Middle school students must send report cards/transcripts from 5th up
- All students must be in good standing with his/her previous school.
- Official report cards and transcripts in a sealed envelope or by email to the Director of Education. Parents must request all paperwork from the school.

- Teacher Recommendation Letters. An English and Math teacher recommendation letter with current grades.

3. International Students

- Transcripts must be translated, transcribed course-by-course into US standards into English

4. Payment

- Once the tuition payment and the student's records from their previous school(s) are received, the Head of Academics Development creates a four-year academic plan for the full-time student.

5. School Arrival

- Our meet and greet team will receive each student.
- Each student will take an entrance exam during their orientation week. This exam will help determine your child's placement in the school's curriculum in English and Mathematics.
- The first week each student will be going through the following documents and presentations:
 - > School schedule
 - > Introduction to our teachers
 - > Courses and their descriptions
 - > Extra clubs and activities
 - > Student's community hours
 - > National Honor Society
 - > School Policies
 - > NCAA Eligibility Center
 - > College Board - SAT/ACT TOEFL
 - > Personal Academic Goals



COMPREHENSIVE ASSESSMENT

ASSESSMENT IS A VITAL PART OF OUR EDUCATIONAL PROCESS

DIAGNOSTIC ASSESSMENT

Diagnostic assessments are designed to provide parents, students, and teachers with specific information about what skills the student has and has not mastered. The results empower students, parents, and teachers to pinpoint, assign, and review those areas the student must master before moving on to more complex concepts.

LEARNING STYLES PROFILE

RUSH Education assesses five aspects of learning styles to develop a Learning Styles Profile specific to each child. The profile helps parents better understand their child's blueprint for learning and offers helpful study tips and techniques. By understanding their child's learning style, parents can help their children excel not only in school but also in life.

Families may request an in-depth phone consultation for an additional fee, during which a learning style coach with advanced training reviews the Learning Styles Profile and discusses how the results could be applied to a student's individual learning goals. During this consultation, families learn how to implement data from the Learning Styles Profile to support student success in specific courses.

ONGOING ASSESSMENT

Our approach is mastery-based, and students need to demonstrate that they understand assignments and courses. In this light, we have developed a student-centered approach to assessment that helps



us better understand each child and measure the effectiveness of our courses.

All students participate in Performance Series assessments in the first and last lessons of their English and Math courses. These assessments play a crucial role in monitoring student growth and measuring school improvement. Performance Series assessments provide adaptive content so that each learner is assessed according to their own skill levels. Students access the assessments within their course material in the Learning Management System (LMS).

In addition to providing personalized learning, the assessments give immediate feedback on students' individual progress toward core objectives. The detailed reports also feature norm referencing to compare students to the rest of the nation. A parent summary is included.





***RESULTS THAT
EMPOWER
STUDENTS,
PARENTS, AND
TEACHERS***



LEADERSHIP TEAM



GREGORY C. BREUNICH **CEO / PRINCIPLE**

(Florida, USA) — Founder and Principal, Managing Director of *Altitude Academies* and the *Beach Volleyball Academy* at *Altitude Academies* (current), formerly Senior Vice President IMG (21 years 1978 - 2009), Managing Director IMG Academy (30 years), Managing Partner minority interest IMG Academy LLP.

Co-founder of *Nick Bollettieri Tennis Academy*, Founder - *David Lead better Golf Academy*, *IMG Soccer Academy*, *IMG Basketball, Academy*, *IMG Baseball Academy*, *IMG International Performance Institute*, *IMG Academy (Pendleton School)*, *Bollettieri Sports Medicine Institute*, *IMG Mountain Sports Academy (Speed Skiing, Snow Boarding, Free Style)*, *Bollettieri Development Co.*, *Academy Park Development Company*, *IMG Academy Golf and Country Club*, *Legends Bay Development Co.*, *Legends Cove Development Co.*

Co-developed *Sagemont Online High School* (private labeled University of Miami Online High School later acquired re-named Kaplan Online High School) & *Virtual Sage* (Online academic curriculum publishing company), Founder *Med Group Development company*, Co-Founder of *NVL Academy LLC*, Founder *Trans World Performance LLC*, *SpAEd LLC*.



GABRIEL JARAMILLO **EVP, DIRECTOR OF ACADEMIES / PRINCIPLE**

(Florida, USA) — Trained and developed eleven #1, and twenty-seven “top 10” players in the world, and coached players in all four Grand Slams. Founder and a principal of *Altitude Academies*, Director of Tennis at *Altitude Academies*, right hand man to Nick Bollettieri for 28 years.

Developed *Periodization Training Method* for tennis, key developer in the world recognized system *Five Training System*, critical role in the development of *IMG Academies Multi Sports Academy*, master clinician and motivational speaker (*World City CEO Group*, *The Grace Corporation*, *International Paper Company*, *USPTA*, *PTRBTCA*, *HKTF*).

Author of “*The Secret Manual*,” producer of multiple training videos and apps, largest tennis clinic Guinness Book of World Records, special advisor to the *Morita Tennis Foundation Japan (Sony)*, *Hong Kong Tennis Federation* and the *Columbian Tennis Federation*. Facebook following of 100,000+ with a sales agent network in 40 countries around the world.

Gabe’s website is gabejaramillo.com.



LEADERSHIP TEAM



SCOTT DEL MASTRO

EVP, DIRECTOR OF OPERATIONS / PRINCIPLE

(Florida, USA) — The owner and operator of the *International Tennis Academy (ITA)* in Delray Beach, FL, for 14 years (1996- 2010), Del Mastro is a Founder and a Principal of *Altitude Academies* who brings 20 years of coaching and training professional of junior athletes on the ATP, WTA, ITF, and National Domestic and World circuits.

Scott, whose training specialties include energy management, footwork and movement, mental conditioning, and fitness, earned his bachelor's degree in Psychology and his master's degree in Sport Psychology, with an emphasis in Biomechanics.

Both of his degrees were procured from San Diego State University. He is an international speaker and also has developed strong affiliations with *Tianjin Tennis Center*, in Tianjin, China, one of the most well-respected tennis training centers in China.



PETER DUVINAGE

GENERAL COUNCIL / PRINCIPLE

(Munich, Germany) — 20 plus years in media business, created *Axel Springer Verlag* and *Leo Kirch* in creation of ISPR, International Sportrechteverwert-ungsgesellschaft mbH, National and international exploitation representation of German “Bundesliga” and other international soccer leagues.

Client representation of national and international corporate sports rights consisting of advisory 3 in all media matters sponsorship and endorsement (e.g. *Diamler Benz, T-Systems, etc.*).

Specialist in media start-ups company structuring, investor sourcing, client management famous celebrities, (e.g. Boris Becker, Heidi Klum)



ADVISORY BOARD



DANIEL BEAUVOIS

(Belgium, South of France) — Master in Social Communications (University of Brussels), twelve years within the computer industry in various marketing and communications management positions (1980-1991).

Founding managing director of *ISPR GmbH* in Munich (Germany) (1991-1997) managing director of *ISL Television* (London) and of the *ISMM Group* (Zug, Switzerland) (1997-2001) sailed from France to Australia (2004- 2007) since 2008 consultant with *Profile Partners Ltd* (London) advising, inter alia, the *International Association of Athletics Federations (IAAF)* on their international broadcasting rights.



POLLY GRUNFELD-SACK

(Cleveland USA) — *Gate House Media, Inc.* General Counsel, Senior Vice President, Corporate Secretary, Compliance Officer, Formerly Senior Vice President and Director of Mergers and Acquisitions of *IMG Worldwide, Inc.* (“*IMG*”), global sports, media and entertainment company, also served as *IMG*’s associate counsel and a Vice President from 1992 to 2001.

Prior to *IMG*, Polly worked in private practice at *Skadden, Arps, Slate, Meagher & Flom* in their merger and acquisitions department. Holds bachelor’s degrees in civil engineering and mathematics, a master’s degree in civil engineering, and a law degree (MIT, Stanford University).

LEARNING TEAM



KERRY-JANE WHITE
DIRECTOR OF EDUCATION

Ms. White joined Club Med Academies in 2015 as the Assistant Director of Education. She was promoted to Director of Education in 2016. In this position, she revises and formulates policies, oversees the evaluation, selection, and integration of curricula for the school, and evaluates the effectiveness of the curriculum instructors. During her time at CMA, she acquired the NCAA license and transitioned CMA into becoming a fully-accredited school through AdvancEd Cognia. In 2019, Ms. White continued to develop the academic program and helped to acquire a Corporation Systems License to implement and develop accredited schools worldwide. Kerry-Jane has a deep passion for sports and the powerful impact they can have on a student's personal development and growth. She is also an A.S.A, STA, and a U.S.A licensed swimming coach—and has trained multiple students to reach the Junior Olympics.



SIENA DEL MASTRO
ADMISSIONS

Ms. Del Mastro joined Altitude Academies in June 2022 as a representative for the Admissions department. She has over three and a half years of experience working in college Admissions. From September 2018 to September 2021, she served as an Admissions Counselor at the *Wilkes Honors College of Florida Atlantic University* working with students from the prospective admissions application process through enrollment. In September 2021, Siena was promoted to the Assistant Director of Transfer Recruitment and Admissions at FAU, now working directly with the transfer population from prospective to enrollment. In addition, Siena currently serves as an Adjunct Faculty Instructor in the *FAU Leadership* minor and teaches courses such as *Introduction to Leadership* and *FAU iSucceed*, a college readiness course. She is also a third semester doctoral student in the Higher Education Leadership Ph.D. program at FAU and graduated with her master's degree in the same field in May 2021. Siena is excited to be a part of the team and looks forward to working with the students at Altitude.



OUR COMMUNITY

When students enroll, our team of professionals guides them through the orientation process. Students are enrolled in an orientation course that is appropriate to their grade level and enrollment status (full-time or part-time), which acclimates them to academy and our learning process. Our community welcomes families, answers questions during the orientation process and provides training and support our unique model for learning. To ensure student success, families are encouraged to communicate with student services via a variety of methods.

Throughout the year, we pro-actively monitor student activities, encouraging and promoting time management progress and assistance where needed with the students' demanding daily schedules of in-class and on the playing field regimen. The department ensures that students uphold the Academies' code of conduct and demands of the programs delivered on-site daily, throughout the year.

Our student athletes and their families are highly diverse and come from areas around the globe. Regardless of where our students are from, the Academy community shares the same passion for excellence in all facets of learning.

Families, teachers, and staff believe that educational achievement should not be limited; by allowing the student to form their own educational goals, the results are more attainable and meaningful to the student. For decades, families have turned to RUSH to learn how to participate in a high-performance, high-achieving environment.

Parents who enroll their children in RUSH Education seek a personalized approach that meets their child's learning style, block-scheduling, and a social and physical environment that is conducive to true learning.

PARENTS PLAY AN ESSENTIAL ROLE IN PREPARING STUDENTS FOR ACADEMIC SUCCESS.

In the RUSH Education learning environment, students, teachers, coaches, and parents work together, all with an active role, dedicated to helping the child excel. Being a successful learner requires self-motivation, a commitment to time management, and a desire to achieve.

Effective communication between parents, students, teachers, and coaches is the key to creating a learning team that ensures student success.

Our educational model for learning encourages students to develop strong skills and a heightened sense of intrinsic motivation. As a result, students pursue their personal goals and interests in a very intense way, experiencing an amazing preparatory education and becoming primetime competitors ready to tackle all that they encounter.



TEACHER FOUNDATION

TEACHERS PROVIDE SUBJECT MATTER INSTRUCTION

Students participate in cooperative learning with two teachers in class who guide them through the learning process by personalizing the student's educational experience during school hours. Our fully-qualified teachers are experienced professionals, many of whom possess advanced degrees and are well-versed in blended learning education.

Our teachers are credentialed, possess strong subject area expertise, and demonstrate a passion for teaching. At the core, our teachers' goal is the understanding of teaching as a collaborative process, rather than just the delivery of instruction and assessment of student work.

We understand the goal of education is to encourage students to discover and develop their interests, talents, and natural gifts. This approach inspires students to become active learners who think independently, communicate effectively, and see themselves as members of a global community. Our teachers provide students with the necessary skills to become independent learners and self-directed individuals, confident about their life journey in education.

GRADES AND FEEDBACK

Our Director of Academics keeps in frequent contact with students and Our teachers provide feedback, making comments that address each student's areas of strength and challenge with expertise and compassion. Grades and student progress are viewed and shared with students and parents in our user-friendly, interactive grade book.



TEACHER FOUNDATION

KEEPING IN TOUCH AND PROVIDING SUPPORT

Our Director of Academics keeps in frequent contact with students and parents, responding to questions through our interactive grade book, phone, email, video conferencing, zoom, or mail. Teachers support students in personalizing curriculum, advising academic strategies, and setting up guidelines for communication. In order to support the learning and strategies for student success, the student's teachers also keep in contact with each other while supervised by the Director of Academics.

STUDENT TO TEACHER RATIO

RUSH Education is a brick-and-mortar school with a student-to-teacher ratio of 10:1. We pair up two teachers with small groups of students in the same classroom setting – learning, lecturing, and sharing together. This approach inspires our students to become active learners who think independently, communicate effectively, and see themselves as capable learners.

SCHOOL AND CLASSROOM HOURS OF OPERATION

Daily Academic classroom operations are from 7:30 a.m. to 5:00 p.m. – Monday-Friday.

Optional Saturday classes are available to those wanting to advance or in need of further individualized support. There will be an additional charge for this service.
1:00 p.m. – 5:00 p.m.



TEACHER SERVICES



PROVIDING SUPPORT

RUSH Education is dedicated to individualized education for every child. In order to accommodate the variety of grade levels and skill levels, we use a blended learning approach.

Research shows that a blended education is superior to either online education or face-to-face education. Blended learning allows students in a brick-and-mortar school to learn at their own pace, at their own level. Students are instructed by certified teachers in their classrooms as they navigate the curriculum.



LIVE SUPPORT AND INTERACTION

The traditional teacher-centered classroom often finds the teacher teaching to the middle of the class, guaranteeing that some students fall behind. At RUSH Education, students are always working higher than their skill level and focusing on their individual goals. The certified teacher in the classroom monitors student progress in real time, and at the end of the day.

Our blended learning environment removes the negatives associated with learning. Our certified teachers motivate, encourage, and mentor each student based on their individual needs, making education a team effort. Relationships between student and professional educator become the key element that spurs academic excellence.



PERSONALIZATION

Oftentimes in traditional school, the times right before and after lunch, and right before dismissal are when students are easily distracted. At RUSH, students are in class weekdays for two hours each morning and two hours each afternoon.

This schedule allows concentrated effort without boredom. Each student is involved in a specialization. In addition to academics, that specialization is two hours each morning, two hours each afternoon, plus additional additional homework. This mixture of specialization and academic rigor dispersed over the course of the day maximizes efficiency in both specialization training and academics.



CUSTOMIZATION

RUSH Education takes the best elements of education and makes them the foundation of our school. We individualize education while utilizing technology to accelerate learning. Our professional educators combine personalized learning with sport to enable our student athletes to function at peak intellectual and physical performance, redefining excellence in education.

SOCIAL LIFE & COMMUNITY

A WIDE VARIETY OF ACTIVITIES ENCOURAGE STUDENTS TO CREATE LASTING FRIENDSHIPS WITHIN A GLOBAL COMMUNITY.

SOCIAL LIFE AT RUSH EDUCATION CAN BE VERY REWARDING FOR STUDENTS WHO WANT TO EXPAND THEIR HORIZONS. OUR STUDENTS ARE PASSIONATE ABOUT THEIR EDUCATION, TALENTS, INTERESTS, AND GOALS.

NATIONAL HONOR SOCIETY

RUSH Education is proud to be a part of the National Honor Society (NHS). Since its inception in 1929, the National Honor Society has recognized outstanding high school students whose accomplishments go beyond excellent academic performance and include exceptional leadership, service, and character qualities.

We take great pride in the accomplishments of our students who have achieved this premier distinction. Our school's affiliation with the National Honor Society provides a unique forum in which the student leaders of our school can participate in service learning projects.

We honor incoming National Honor Society members with the traditional induction ceremony. This event is a milestone for students who have worked hard to meet NHS requirements and have completed challenging coursework and projects.

The induction ceremony is a wonderful way for these students to celebrate their accomplishments as a

group. We join family members to honor students' academic and personal achievements.

NATIONAL JUNIOR HONOR SOCIETY

The National Junior Honor Society (NJHS) is the national organization that acknowledges outstanding middle school students beginning in the 7th grade. These students have demonstrated excellence in the areas of scholarship, leadership, service, character, and citizenship.

GRADUATION

Each year, RUSH Education hosts a graduation ceremony, where students have the opportunity to celebrate this milestone with their classmates and the school staff. Students from around the world attend the commencement ceremony, which is complete with caps, gowns, and diplomas.

The graduation ceremony is personal for graduates and families because it features inspiring statements from teachers about their experiences with graduating students.



SOCIAL LIFE & COMMUNITY

COMPETITIVE SCHEDULES

Our students attend events competing regionally, nationally and internationally throughout the year students and parents attend many of these events.

SOCIAL ACTIVITIES

We offer our students and families opportunities to collaborate and make friends and participate fully in the RUSH Education experience.

GUEST SPEAKERS

Students are invited to attend any scheduled guest lectures and/or presentations. These exclusive live events feature inspiring stories from celebrated leaders in their fields.

Symposia guests have included best-in-class world-renowned athletes, sports psychologists, photographers, scientists, an astronaut, an award-winning documentary film director, a South Pole explorer, and an environmental activist.

During the symposium, students are encouraged to ask questions, offer comments, and engage in discussions with peers and experts.

RELATIONSHIPS PROVIDE STUDENTS WITH THE CHANCE TO WORK COLLABORATIVELY.



HIGH SCHOOL COLLEGE PREP PROGRAM

RUSH EDUCATION PREPARES STUDENTS TO ENTER THE COLLEGE OF THEIR CHOICE.

RUSH Education is a private high school that offers a complete selection of core academic and elective courses required for graduation and admission to college. We emphasize critical thinking throughout our high school courses so that students are prepared for the rigor of college-level academics.

The RUSH Education advantage is in the relationships students cultivate with teachers, counselors, admissions coordinators, and peers. Our school combines all the benefits of a traditional private school with the flexibility of personalized distance learning.

WE OFFER EXTENSIVE OPTIONS TO OUR FULL-TIME STUDENTS FOR A COMPLETE PRIVATE HIGH SCHOOL EXPERIENCE:

- Admissions coordinator services
- Advanced Placement (AP) courses
- All textbook and digital course materials
- Clubs and community
- College and life planning seminar
- College prep courses
- Course-specific diagnostic assessments
- Diagnostic assessment for placement
- Electives, including World Language courses
- Expert school counseling services
- Interactive Learning Management System
- Learning Styles Profile & ongoing assessment

- NCAA approved courses
- Parent support services
- Personalized learning approach
- Prom & Graduation ceremony
- Records and transcripts
- Regional face-to-face events
- Asynchronous, mastery-based learning
- Student support services & office hours
- Symposia with guest speakers
- Teacher support services
- Classroom providing individualized multi-teacher academic assistance
- Dual Enrollment (IRSC)
- National Honor Society

Our high school academic program prepares students for successful experiences in college and beyond, ensuring that they have essential 21st century skill development.



COURSE POSSIBILITIES AND OPTIONS

OUR SCHOOL OFFERS EXCEPTIONAL COURSE AND CURRICULUM OPTIONS FOR THE COLLEGE-BOUND STUDENT.

COLLEGE PREP AND HONORS COURSES

We offer digital textbook-based curriculum options. Our high school courses combine the interactivity of the web with on- and off-line assignments. Our courses feature materials carefully chosen for their academic quality and suitability for a wide range of learning styles.

College prep courses have been thoughtfully designed so that successful completion prepares students for college-level courses at the most demanding colleges and universities. In addition, our school provides a wide range of honors courses, which meet the needs of college-bound students seeking a challenging academic curriculum.

The honors program takes college prep courses to the next level by focusing on critical thinking, research and writing skills, and creative application of ideas.

ADVANCED PLACEMENT COURSES

Our school provides a wide variety of advanced placement (AP) courses, enabling students to take college-level courses and exams and earn college credit or placement while still in high school.

Advanced placement programs emphasize vocabulary development, critical thinking, problem solving, expository writing, and research. Excellent AP exam scores enable many graduates to be exempt from entry-level courses in college.

WEEKLY, SUMMER, SINGLE COURSE ENROLLMENTS

As an accredited school, RUSH Education has an excellent track record of providing college prep courses to students who need to address issues of scheduling and availability. Whether students wish to take World Language or AP courses that are not offered at their school, or want to get ahead by attending our *SUMMER CAMP PROGRAMS*, we offer flexible, high-quality courses that meet students' academic needs. Our staff has decades of experience working with students' primary schools to ensure that credits from our courses are transferred to the student's high school transcript.

PART-TIME, SUMMER CAMP, AND SINGLE-COURSE ENROLLMENTS

As an accredited school, RUSH Education has an excellent track record of providing college prep courses to students who need to address issues of scheduling and availability.

Whether students wish to take World Language or AP courses that are not offered at their school, or want to get ahead by taking courses during the summer, RUSH Education offers flexible, high-quality courses that meet students' academic needs.

Our staff has decades of experience working with students' primary schools to ensure that credits from RUSH Education courses are transferred to the student's high school transcript. RUSH Education is the perfect fit for students who wish to combine, student-centered courses with their primary school's academic program.



RUSH EDUCATION ADVANCED PLACEMENT COURSES INCLUDE THE FOLLOWING TITLES:

AP ART

AP HISTORY

AP CALCULUS

AP CHEMISTRY

AP COMPUTER SCIENCE

AP ENGLISH

AP ENVIRONMENTAL

AP SCIENCE

AP FRENCH

AP MACROECONOMICS

AP MICROECONOMICS

AP PSYCHOLOGY

AP SPANISH

AP STATISTICS

AP U.S. GOVERNMENT & POLITICS

AP U.S. HISTORY

AP WORLD HISTORY



GRADUATION REQUIREMENTS

High school students can create a course of study personalized for their interests and goals. To earn a college prep academic diploma, students must complete 24 credits of academic and elective courses.

COURSE REQUIREMENTS

The recommendations shown below provide a foundation from which students may begin planning for their high school course selection. College admissions policies and academic requirements vary widely. The sample course requirements and recommendations are not specific to any particular college or university. Our Head of Academic Development helps tailor the course list to match a student's specific goals.

COLLEGE PREP TRACK

Upper-level requirements in preparation for admission into more selective colleges

SUBJECT	YEARS	CREDITS
ENGLISH	4	4
MATH	4	4
SOCIAL STUDIES	4	4
SCIENCE	4*	4
FINE ARTS	1	1
WORLD LANGUAGE	3	3
HEALTH	1	1
ELECTIVE	4	3
TOTAL		24.0

- **Math must include, at a minimum, Algebra 1, Geometry, Algebra 2, or higher-level Math.
- **World Language must be three years of the same language.

*Includes a two-year lab

**Requirements vary from state to state



HIGH SCHOOL PROGRESSIONS

RUSH Education high school students are provided with recommended academic plans to help them achieve their goals for college and career. The following course progressions in the core subject areas are used as a guide for families to understand how their children could progress through high school.

These course progressions can be adapted to suit each student's unique abilities and needs. In addition, these progressions are only intended to demonstrate one option on path for graduation. Most high school courses carry NCAA approval; please contact your admissions coordinator to learn more.

ENGLISH

- 9TH** English 1 Honors
- 10TH** English 2 Honors
- 11TH** English 3 Honors
- 12TH** English 4 Honors

SOCIAL STUDIES

- 9TH** Sociology and Psychology
- 10TH** World History Honors
- 11TH** US History Honors
- 12TH** US Economics Honors and US Government Honors

MATH

- 9TH** Algebra 1 Honors
- 10TH** Geometry Honors
- 11TH** Algebra 2 Honors or Pre-Calculus Honors
- 12TH** Pre-Calculus Honors or Calculus AP Prep

SCIENCE

- 9TH** Physical Science Honors
- 10TH** Biology Honors
- 11TH** Chemistry Honors
- 12TH** Physics Honors



RUSH COLLEGE PLACEMENT 2012-2022

Penn University

North Texas University

George Mason

University of Kentucky

Queens University

Rollins University

SIUE

Erskine College

University of Denver

Boston University

Washington State University

Wright State University

Wingate University

Middle Tennessee State

Kennesaw State University

Saint Johns University

The Richmond international Academics

Limestone College

Harvard University

University of Oregon

Loyola University

Boston College

William and Mary

UNC - Chapel Hill

LeHigh University

University of North Carolina

Towson University

Florida Atlantic University

University of Florida

University of South Florida

University of California Davis

University of Hawaii

University of Central Florida

Notre Dame College

Flagler College

Southern Illinois University



RUSH EDUCATION

2022-2023 COURSE

CATALOG GRADES 9-12



HIGH SCHOOL COURSE OFFERINGS

ENGLISH

GRADE 9

English 1 Honors

This freshman-year English course invites students to explore diverse texts organized into thematic units. Students will engage in literary analysis and inferential evaluation of great texts both classic and contemporary. While critically reading fiction, poetry, drama, and literary nonfiction, students will master comprehension and literary analysis strategies. Interwoven in the lessons across two semesters are activities that encourage students to strengthen their oral language skills and produce clear, coherent writing. Students will read a range of classic texts including Homer's *The Odyssey*, Shakespeare's *Romeo and Juliet*, and Richard Connell's "The Most Dangerous Game." They will study also short but complex texts, including influential speeches by Dr. Martin Luther King Jr., Franklin D. Roosevelt, and Ronald Reagan. Contemporary texts by Richard Preston, Julia Alvarez, and Maya Angelou round out the course.

College Prep • NCAA Approved

GRADE 10

English 2 Honors

This sophomore-year English course invites students to explore a diverse selection of world literature organized into thematic units. While critically reading fiction, poetry, drama, and expository nonfiction, students learn essential reading comprehension strategies and engage in literary analysis and evaluation of both classic and contemporary works. Interwoven in the lessons across two semesters are activities that encourage students to strengthen their listening and speaking skills and produce clear, coherent writing.

Throughout the course, students read a range of classic and contemporary literary texts including Henrik Ibsen's *A Doll's House*, George Orwell's *Animal Farm*, and Marjane Satrapi's *Persepolis*. In addition to reading a wide range of literary texts, students read and analyze complex informational and argumentative texts including Sonia Sotomayor's "A Latina Judge's Voice," Niccolò Machiavelli's *The Prince*, and the contemporary informational text *Sugar Changed the World: A Story of Magic, Spice, Slavery, Freedom, and Science*.

College Prep • NCAA Approved

GRADE 11

Honors English 3

This junior-year English course invites students to delve into American literature, from early American Indian voices through thoughtful contemporary works. Students will engage in literary analysis and inferential evaluation of great texts, the centerpieces of this course. While critically reading fiction, poetry, drama, and expository nonfiction, students will master comprehension and literary analysis strategies. Interwoven in the lessons across two semesters are tasks that encourage students to strengthen their oral language skills and produce creative, coherent writing. Students will read a range of short but complex texts, including works by Ralph Waldo Emerson, Emily Dickinson, Herman Melville, Nathaniel Hawthorne, Paul Laurence Dunbar, Martin Luther King, Jr., F. Scott Fitzgerald, and Sandra Cisneros, Amy Tan, and Dave Eggers.

College Prep • NCAA Approved

GRADE 12

English 4 Honors

This senior-year honors English course invites students



to delve into British literature, from ancient texts such as the epic of Beowulf through contemporary works. Students will engage in a variety of rigorous lessons with a focus on academic inquiry, literary analysis, and inferential evaluation. While critically reading fiction, poetry, drama, and expository nonfiction, honors students will master comprehension, use evidence to conduct in-depth literary analysis, examine and critique how authors develop ideas in a variety of genres, and synthesize ideas across multiple texts. In addition to activities offered to students in core courses, honors students are given additional opportunities to create and participate in project-based learning activities, including creating a time travel brochure and an original interpretation of William Shakespeare's *The Tragedy of Hamlet*.

Honors students will read a range of classic texts, including Robert Louis Stevenson's *The Strange Case of Dr. Jekyll and Mr. Hyde*, "Politics and the English Language" by George Orwell, and William Shakespeare's *The Tragedy of Hamlet*. In addition to full-length works, students will read a variety of excerpts, including readings from *Lord of the Rings: The Fellowship of the Ring*, *The Smithsonian's History of America in 101 Objects*, and Chaucer's *The Canterbury Tales*, as well as a variety of short fiction, speeches, and poetry.

College Prep • NCAA Approved

AP ENGLISH

GRADES 11–12

11th AP English Language + Composition

In AP English Language and Composition, students will be challenged to effectively read and analyze a challenging and complex variety of texts: novels, essays, letters, speeches, and images. The course focus is primarily on expository, analytical, and argumentative writing. Students will read widely and reflect on their readings through extensive discussion, analysis, and writing. Students will explore the depth and breadth of the English language in both the writing of others, and in their own writing.

In order to write an effective essay, and analyze the works of others, this course will cultivate the use and importance of language, including syntax, imitation, word choice, and tone. They will be required to write both formally and informally. In preparation for the AP exam, students will write expository, analytical, argumentative, and synthesis essays. Informal writing processes will help them to write with increasing complexity, voice, and sophistication. This course is considered the equivalent of a college-level composition course; students will be held to rigorous expectations, and high standards of accountability.

At the end of the course, they will be prepared for not only the AP exam, but any situation which requires them to think critically, communicate clearly, and analyze multiple (sometimes conflicting) viewpoints. As an AP course, the level of rigor is equivalent to that required of students in a college freshman or sophomore course in this area of study. The course has been audited and approved by the College Board the governing Body for AP Courses and prepares students for the College Board examination for English Language and Composition.

College Prep • NCAA Approved

12th AP English Literature + Composition

AP English Literature and Composition provides students with an experience equivalent to an entry-level college literature course. Employing a wide range of quality literature, students will read critically, ask pertinent questions about what they have read, recognize assumptions and implications, and evaluate ideas.

Students will gain the skills to analyze literature in both excerpts and whole works; their focus will be on identifying and analyzing theme, plot, point of view, characterization, setting, tone, mood, atmosphere, and style.

Students will be guided through (working towards independence) close readings of texts. They will learn to identify and discuss the use of literary devices, and the effect the devices have on the text and on the purpose and interpretation of the text.



Students will be asked to write essays, which stem from an effective thesis, have an organizational structure, discuss the prominent features of a text, show insight, and use effective and purposeful diction and syntax. Students will have the opportunity to read and write with each lesson.

They will access a variety of multimedia, participate in interactive activities, and refine their writing skills with each assignment as they strive to assess and improve their literary understanding and analysis skills.

Students enrolled in AP Literature and Composition are expected to make a commitment to a rigorous curriculum of literary analysis and composition. In an AP course, the level of rigor is equivalent to that required of students in a college freshman or sophomore course in this area of study.

The course has been audited and approved by the College Board, the governing body for AP Courses and prepares students for the College Board examination for English Literature and Composition.

College Prep • NCAA Approved

SOCIAL STUDIES

GRADE 9

Sociology Semester Only

This course is designed to explore basic principles and theories of sociology. It also focuses on many different aspects of human behavior and life.

The strategies implemented in this course are primarily student-centered to guide students in acquiring the knowledge and skills required to meet content standards.

During the course, you should be able to explain how ethics vary in different cultures, groups, and societies, the cultural trends that affect how society operates, and how to work well with people from different backgrounds. Identify learn about the political and economic aspects of sociology in cultures

worldwide, what stereotypes and prejudices people from other cultures endure, and give students a clear understanding of how people interact as individuals and groups daily.

Compare and contrast their daily lives, cultural norms, and their relationship with family and friends with that of other people from around the globe.

College Prep • NCAA Approved

GRADE 9

Psychology Semester Only

Compare and contrast the field of psychology to other social and physical sciences. Define psychology and explain how psychology qualifies as a science.

Early History explains the foundations of psychology as a philosophy and identifies historical approaches to psychology.

Summarize how functionalism and structuralism sought to understand the mind's structure and functions.

Modern History explains the factors that affect the influence of contemporary psychological perspectives and identify contemporary perspectives psychologists use to study behavior and cognitive processes.

Historical issues in psychology explain how early psychological research was biased and identifies the contributions women and minorities have made to psychology.

Summarize why minority groups were excluded from psychology fields and occupations of psychology identify occupations available to students who obtain different degrees in psychology and list and describe several areas and subfields of psychology.

College Prep • NCAA Approved





GRADE 10

Honors World History

Students in this Honors World History course will explore and analyze the social and cultural, as well as the political and economic, aspects of key civilizations in world history.

Engaging in a variety of instructional methods - primary source materials, art interpretation, graphs, and map exercises - students will draw on different skill sets to a deep understanding of the connections, patterns, and themes in history.

The text is rich, varied, and full of informative photographs. This intense and challenging course focuses on delving and discovering underlying causes of world events as well as their lasting impact. The main goal of the World Civilizations textbook, and this course, is to present a global history — from the very beginnings of agriculture and herding to the present. Students will view the main periods of human history through the lens of global contact.

As with all human endeavors, nothing in history happens in isolation, and the text acknowledges this concept by prompting students to consider the reverberating impacts of historical events — both on the national scale and on the “ordinary human” level.

College Prep • NCAA Approved

GRADE 11

Honors U.S. History

Students enrolled in Honors American History engage in an in-depth study of the significant events in the history of the United States.

The course begins with a detailed review of how North and South America was settled, then delves deeply into the American Revolution and the founding of the United States.

Students will move through both world wars and the

Cold War — making applications to the overall American story, rather than focusing on chronological events.

This course will not only address controversial issues such as the Civil Rights and Women’s Rights movements, as well as the Vietnam War, but also will put historical events into context and explore lasting impacts on present-day America.

Making their way through to modern times, students discover the current administration, the most recent struggles both at home and abroad are researched, examining the issues that confront present-day America.

Students will write a college-style research paper investigating topics of personal interest and will obtain factual information about history while developing critical thinking skills that will remain valuable throughout their lifetime.

College Prep • NCAA Approved

GRADE 12

Honors Government – Semester

This advanced American Government course covers the foundations of American government, political parties and the Fourth Estate, interest groups, the electoral process, the three branches of our federal government, comparative international political and economic systems, and the foundations of state and local government.

Through in-depth milestone assignments, students will critically analyze the election process, public policy, and foreign affairs, as well as becoming involved with a personal service project.

College Prep • NCAA Approved

Honors Economics – Semester

This is a multidimensional program designed to help students of all abilities achieve fundamental



understanding of core economic principles. Students will learn key concepts, based on Social Science Standards and Framework.

Topics include economic systems, supply, demand, prices, market structure, labor, banking, GDP, taxes, and international trade. The concepts presented in the text are supported by a variety of activities to help students apply their new knowledge to the real world.

College Prep • NCAA Approved

AP U.S. HISTORY

GRADES 11–12

AP U.S. History

The history of our nation can be vast in subject matter. In this AP US History course, RUSH Education students chart the progress of the U.S. from a colonial nation through a new order and onto a new century, utilizing sound 21st Century creative and critical thinking learning skills, quizzes, short videos, traditional teaching methods and engaging reflections.

Students personalize and own a piece of our nation's history, assess historical primary and secondary sources weighing the evidence presented to arrive at informed conclusions. Students learn to think like historians: evaluating sources and interpretations, developing thesis statements, supporting their interpretations with evidence, and communicating their conclusions persuasively.

Students gain an appreciation for how historic events have shaped our modern political, social, cultural, and economic life. As an AP course, the level of rigor is equivalent to that required of students in a college freshman or sophomore course in this area of study. The course has been audited and approved by the College Board, the governing body for AP Courses and prepares students for the College Board examination for United States History.

College Prep • NCAA Approved

AP World History

AP World History covers the history of the world from 600 C.E. to the present with an introduction unit on the period before (covering around 8000 B.C.E. To 600 C.E.). Students will be introduced to and understand “patterns of change” and the connections between the various world cultures throughout this time period, as well as global experiences of humanity and be able to apply that knowledge to their growth and development as “world citizens”.

This course offers a wide variety of instructional activities, including objective exams, debates, simulations, threaded-board discussions, a trial, document based questions and research assignments. First semester topics range from the development of human history from prehistoric times through the Enlightenment. Second semester topics cover the rise of the Ottoman Empire to the present. As an AP course, the level of rigor is equivalent to that required of students in a college freshman or sophomore course in this area of study. The course has been audited and approved by the College Board, the governing body for AP courses and prepares students for the College Board examination in World History.

College Prep • NCAA Approved

AP U.S. Government & Politics — Semester

From an analytical perspective, RUSH Education AP US Government and Politics presents American politics. This multi-modality course uses thought provoking visual images, discussions, video animation, as well as a traditional text to introduce ideals, institutions, and processes that direct the daily operations of our government and shapes our public policies.

Building on basics, students will explore a variety of theoretical perspectives and explanations to interpret and analyze the political landscape to develop a better understanding of the strengths and weaknesses of our system of government.



This is an AP course; the level of rigor is equivalent to that required of students in a college freshman or sophomore course in this area of study. The course has been audited and approved by the College Board, the governing body for AP Courses and prepares students for the College Board examination for US Government and Politics.

College Prep • NCAA Approved

AP Microeconomics — Semester

Students taking this course will examine concepts such as supply and demand, factors of production, roles of labor and management, the relationship between the environment and the economy, and the impact of the government on individual decision-making processes.

Including the timely subject of the stock market as an investment option and tracing various stocks through the semester using the Wall Street Journal and the Internet as resources. Utilizing quizzes, discussions, document based questions, the focus of the course is to prepare students for the College Board AP exam.

As an AP course, the level of rigor is equivalent to that required of students in a college freshman or sophomore course in this area of study. The course has been audited and approved by the College Board, the governing body for AP Courses and prepares students for the College Board examination for Microeconomics.

College Prep • NCAA Approved

AP Macroeconomics — Semester

Living in a global community in the 21st Century, the AP Macroeconomics course at RUSH Education is an emphasis on how the economic system works as a whole. The primary course objective is the study of the determinants of the aggregate level of economic activity in a global economy.

Attention focuses on the demand for output by households (consumption spending), businesses (investment spending), government spending, and trade

with the rest of the world (net exports), as well as the roles played by fiscal and monetary policies.

In addition, coverage centers on the problems of inflation, unemployment, federal budget deficits, and stimulating economic growth.

Through multi-modality assignments including discussions, text book readings, and document based questions to develop critical thinking and writing skills, students will study how the economy is measured by using concepts such as gross domestic product (GDP) and other indicators.

Concepts such as inflation, unemployment, world trade patterns, and the role of the Federal Reserve Bank will be examined.

Engaging in decision-making processes, students create an environment where high employment and a higher standard of living are achievable by using the economic tools of fiscal and monetary policy.

As an AP course, the level of rigor is equivalent to that required of students in a college freshman or sophomore course in this area of study.

The course has been audited and approved by the College Board, the governing body for AP Courses and prepares students for the College Board examination for Macroeconomics.

College Prep • NCAA Approved

AP Psychology

The complex nature of human beings is explored in-depth in RUSH Education's AP Psychology course. This course is a survey of psychology that introduces students to the major topics of the field, the terminology and methodology of psychology, as well as the historical and current understanding of human behavior and thought-processes.

Beginning with the concept of thinking like a Psychologist, students learn to analyze human



experiences and to apply what they have learned to the world around them utilizing vast educational resources, including a multitude of assignments, games, self-checks, quizzes, reflections, discussions, videos and document based questions.

Because this is an AP course, the level of rigor is equivalent to that required of students in a college freshman or sophomore course in this area of study.

The course has been audited and approved by the College Board, the governing body for AP Courses and prepares students for the College Board examination for Psychology.

College Prep • NCAA Approved

MATH

GRADE 9-12

Honors Algebra 1

Honors Algebra 1 emphasizes abstraction and critical thinking in mathematics. Students will develop an organized approach to solving a wide variety of algebraic problems utilizing the symbols, methodologies, and language necessary to properly communicate and analyze the algebraic concepts in this course.

The basic operations and properties of mathematics build the foundation for the introductory statistics, laws of exponents and radical and rational expressions.

This course will provide a foundation to the symbolic language of mathematics by solving equations containing unknown values.

Problem solving is emphasized in single and multiple step equation solving and through graphical representations of functions. The students will solve systems of linear equations by elimination, substitution, and matrices.

In preparation for advanced algebra, the students are introduced to quadratic functions and polynomials with an emphasis on factoring and graphing. This course has an increased pace with an emphasis on higher

order thinking skills that impact increasingly complex applications. Strong problem solving skills are required to be successful in Honors Algebra 1.

College Prep • NCAA Approved

Honors Geometry

Honors Geometry balances an investigative approach to geometry with an emphasis on helping students develop the ability to reason deductively. Students are introduced to the skills and concepts of geometry through real-world examples and using mini-investigations that lead students through each step of the reasoning process they must master.

Geometric concepts and their real-world applications are presented through a variety of textual explanations, application problems, video tutorials, and investigations. The real-world component is demonstrated through student created assessments.

The practical use of geometry, as well as its mathematical and theoretical relevance is emphasized throughout the course. Students make conjectures and must justify them through two column and indirect proofs. Algebra skills are reintroduced and students have ample opportunity to apply their knowledge of algebra to the study of geometry, creating a solid level of geometric thinking.

College Prep • NCAA Approved

Honors Algebra 2

Honors Algebra 2 requires that the student apply real world situations to the algebraic terminology and concepts, demonstrated in student created assessments. Students develop an organized approach to solving a variety of higher-level algebraic problems utilizing the symbols, methodologies, and language necessary to properly communicate and analyze the algebraic concepts covered in this course.

In addition, students will master conventional systems while strengthening their intuitive development with



problem-solving and critical thinking skills. The focus is on polynomial, rational, and radical relationships, trigonometric functions, modeling with functions, and inferences and conclusions from data.

The course builds upon linear relationships, leading to quadratic, polynomial, exponential logarithmic, and rational functions. The algebraic concepts are applied to conic sections, trigonometric functions and identities, and probability and statistics with an emphasis on binomial and normal distributions.

Requirement: Students will need graphing calculators TI-83, TI-84 Plus or TI-89.

College Prep • NCAA Approved

Honors Trigonometry – Semester

Honors Trigonometry provides a thorough grounding in the discipline's fundamentals, including right-triangle trigonometry, the six trigonometric functions, radian measure, graphing and inverse functions, identities, equations, complex numbers, polar coordinates, and logarithms.

The mastery of the student's trigonometric knowledge is demonstrated through an ongoing portfolio in which the student provides real life examples to illustrate the key terms of the unit. This one semester course prepares students for Pre-Calculus for their second semester.

College Prep • NCAA Approved

Honors Pre-Calculus

The main objective of this course is to introduce the student to advanced topics in mathematics and to prepare the student for taking the AP Calculus exam the following year. This course will cover the fundamental concepts of polynomials, exponential, logarithmic and trigonometric functions, inverse functions, analytic geometry, polar coordinates, complex numbers, vectors, determinants, sequences, series, matrices, limits and continuity.

The course places a strong emphasis on critical thinking skills and verbal and written communication methods for solving problems. The use of technology, such as the graphing calculator, is highly integrated into the course and the textbook to allow all students to see the solution from a graphical perspective and to accommodate those with different learning styles.

Additionally, connections are made throughout the Pre-Calculus course to calculus, art, history, and a variety of other fields related to mathematics.

Requirement: Student will need graphing calculator TI-83, TI-84 Plus or TI-89.

College Prep • NCAA Approved

AP MATH

GRADES 11–12

AP Calculus Prep

AP Calculus AB is a comprehensive introduction to calculus that is comparable to a one semester college-level course. The material is challenging and corresponds with the syllabus of the College Board Advanced Placement Program.

The course is mainly concerned with developing understanding of the concepts of calculus and applications to many areas of study including science, business, and engineering.

The course emphasizes problems that are being expressed graphically, numerically, and algebraically. Students will build the foundation of Calculus by analyzing graphs and calculating limits of functions. The concepts of continuity and derivative as a rate of change will lead to the computation of derivatives using the sum rule, product rule, quotient rule, chain rule, and implicit differentiation.

The derivatives of all functions are introduced which include power functions, exponential functions, logarithmic functions, trigonometric functions, and



inverse trigonometric functions. These derivatives are applied to the solving of real world situations. The course continues with techniques of integration, indefinite integrals, definite integrals, the fundamental theorem of calculus, and various applications of integration.

Students will need to be very proficient in the applications of the graphing calculators as it will be used extensively and required for 2 sections of the AP Calculus AB Exam. Students will need graphing calculator TI-83, TI-84 PLUS or TI-89. As an AP course, the level of rigor is equivalent to that required of students in a college freshman or sophomore course in this area of study.

The course has been audited and approved by the College Board, the governing body for AP Courses and prepares students for the College Board examination for Calculus AB.

Requirement: Student will need graphing calculator TI-83, TI-84 Plus or TI-89.

College Prep • NCAA Approved

SCIENCE

GRADE 9–12

Honors Physical Science

This course provides students with instruction in the nature of science, including scientific processes, the scientific method, and scientific inquiry. It covers safety in the lab and the field, principles for conducting experiments, and the need for scientific communication. The course then covers the atomic nature of matter, classification of the elements, the periodic table, acids, and bases. Next, students are introduced to energy. They learn what energy is and the various forms of energy. They explore energy transformations and specifically discuss the production of electricity.

The course discusses energy in motion, with emphasis on defining work, power, velocity, acceleration, forces, and

gravity. Students learn about Newton's laws of motion and simple machines and have the opportunity to design their own machine using the basic principles of physics.

Finally, the course discusses the composition and structure of the universe, the life cycles of stars, and space exploration.

College Prep • NCAA Approved

GRADES 9–12

Honors Biology

Honors Biology offers a research- and writing-intensive version of our regular Biology course. During this course, students learn the fundamental concepts of biology: the nature of life, basic chemistry, animal maintenance, plant maintenance, reproduction and development, genetics, evolution, diversity of living things and ecology.

Through investigations and activities, students gain firsthand experience with such learning skills and processes as observing, classifying, identifying, measuring, inferring, hypothesizing, interpreting and predicting.

The course includes weekly thought-provoking lesson activities and short-answer essays. Students complete a term paper on a chosen topic in the second semester.

College Prep • NCAA Approved

Honors Chemistry

This course offers an intensive, Honors-level study of Chemistry for students preparing for college or a technical career. Our course is extremely thorough. Main topics include Phases, Atomic and Molecular Models, Polarity, Solutions, Ionic Bonding, Stoichiometry, Acids and Bases, Le Chatelier's Principle, The Mole, Nuclear Reactions, The Periodic Table, Isomers, Molecular Orbitals, Chemical Reactions, Energy and Change, Osmosis, Entropy, Reaction Rates, and more.

College Prep • NCAA Approved



AP SCIENCE

GRADES 11–12

AP Biology

This course guides students to a deeper understanding of biological concepts including the diversity and unity of life, energy and the processes of life, homeostasis, and genetics.

Students learn about regulation, communication, and signaling in living organisms, as well as interactions of biological systems. Students carry out a number of learning activities, including readings, interactive exercises, extension activities, hands-on and laboratory experiments, and practice assessments.

These activities are designed to help students gain an understanding of the science process and critical-thinking skills necessary to answer questions on the AP Biology Exam. As an AP course, the level of rigor is equivalent to that required of students in a college freshman or sophomore course in this area of study.

The course has been audited and approved by the College Board, the governing body for AP Courses and prepares students for the College Board examination for Biology.

College Prep • NCAA Approved

AP Chemistry

The purpose of Advanced Placement Chemistry is to provide a college level course in chemistry and to prepare the student to seek credit and/ or appropriate placement in college chemistry courses.

The course is designed to meet the recommendations of the College Board's Revised AP Chemistry Curriculum and is structured around the six big ideas articulated in the AP Chemistry Curriculum Framework.

A special emphasis will be placed on the seven science practices, which capture important aspects of the work that scientists engage in, with learning objectives that combine content with inquiry and reasoning skills.

Students are engaged in hands-on laboratory work, integrated throughout the course that accounts for more than 25% of the class time. With teacher guidance, students explore chemistry, perform hands-on labs, and engage with a suite of labs.

A variety of assessments are delivered at regular intervals to monitor learning progress. The course scope and rigor will prepare students for the College Board AP Chemistry Exam and further educational pursuits. The two-semester, 36 week, course meets College Board requirements.

Prep • NCAA Approved

AP Physics

The Advanced Placement Physics course is a mathematically rigorous course, designed specifically to prepare students for the AP Physics B exam. Physics is the most fundamental branch of all sciences, and one of the most enjoyable to study.

This course provides a systematic introduction to the main principles of physics and emphasizes the development of conceptual understanding and problem-solving ability, using algebra, trigonometry and, rarely, calculus.

The equivalent of an introductory college-level course, AP Physics B prepares students for the AP Exam and for further study in science and engineering. AP Physics B covers five general areas: Newtonian mechanics, thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics.

As an AP course, the level of rigor is equivalent to that required of students in a college freshman or sophomore course in this area of study. The course has been audited and approved by the College Board, the governing body for AP Courses and prepares students for the College Board examination for Physics.

Requirement: Student will need a TI-83 or TI-84 Plus calculator.

College Prep • NCAA Approved



AP Environmental Science

AP Environmental Science is a yearlong examination of the interrelationships of the natural world. Students identify and analyze environmental problems and their effects, and evaluate the effectiveness of proposed solutions.

Students learn to think like environmental scientists, making predictions based on observations, writing hypothesis, designing and completing field studies and experiments, and reaching conclusions based on the analysis of data derived from these experiments. Students apply these concepts of environmental science to their everyday experiences and current events and issues in science, politics, and society.

The course provides opportunities for guided inquiry and student-centered learning to foster critical thinking skills. As an AP course, the level of rigor is equivalent to that required of students in a college freshman or sophomore course in this area of study.

The course had been audited and approved by the College Board, the governing body for AP Courses and prepares students for the College Board examinations for Environmental Science.

College Prep • NCAA Approved

WORLD LANGUAGE

SPANISH

Spanish 1

Spanish 1 is an introductory course in learning academic Spanish. It is also the foundation course for Spanish 2 and Spanish 3 text. Spanish 1 is a college requirement course. Beginning verb conjugation and grammar as well as basic vocabulary is emphasized. The Spanish 1 covers pronunciation and conversational skills. Two practice workbooks support the standard-based Spanish 1 textbook.

College Prep • NCAA Approved

Spanish 2

Realidades Spanish 2 includes a thorough review of the material learned in Realidades Spanish. The course is comprehensive, standards-based, and college preparatory.

The content balances grammar with oral and written communication and vocabulary. The course also combines learning the Spanish language with an appreciation for various aspects of Hispanic cultures around the world.

Students will also improve their fluency in speaking Spanish, while they learn how to conjugate irregular & reflexive verbs, possessive adjectives & pronouns, and will be able to use both the preterit and imperfect tenses while describing action in the past.

Prep • NCAA Approved

Spanish 3 Honors

Students further deepen their understanding of Spanish by focusing on the three modes of communication: interpretive, interpersonal, and presentational.

Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in both formal and informal spoken and written contexts.

Students should expect to be actively engaged in their own language learning, use correct vocabulary terms and phrases naturally, incorporate a wide range of grammar concepts consistently and correctly while speaking and writing, participate in conversations covering a wide range of topics, respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, read and analyze important pieces of Hispanic literature, and take frequent assessments to monitor their progression.



The course is conducted almost entirely in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Prerequisite: High School Spanish 1 & 2 College Prep • NCAA Approved

FRENCH

French 2

The “Discovering French – Nouveau!” program offers superior instruction for high school students who wish to master first (French Bleu) and second year (French Blanc) French. This program integrates a textbook and activity workbook to help maximize and develop strategies for reading, writing and speaking skills.

Photos, illustrations and text provide the student with many opportunities to learn about not only France and its people, but also many other Francophone cultures. All aspects of daily life are covered and the student will learn about meeting people, ordering food, going out with friends, planning vacations and much more.

College Prep • NCAA Approved

French 2

The “Discovering French – Nouveau!” program offers superior instruction for high school students who wish to master second year (French Blanc) French. This program integrates a textbook and activity workbook to help maximize and develop strategies for reading, writing and speaking skills.

Photos, illustrations and text provide the student with many opportunities to learn about not only France and its people but also many other Francophone cultures. All aspects of daily life are covered and the student will learn about meeting people, ordering food, going out with friends, planning vacations and much more.

Prerequisite: High School French 1 College Prep

• **NCAA Approved**

French 3 Honors

Students further deepen their understanding of French by focusing on the three modes of communication: interpretive, interpersonal, and presentational.

Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in both formal and informal spoken and written contexts.

Students should expect to be actively engaged in their own language learning, use correct vocabulary terms and phrases naturally, incorporate a wide range of grammar concepts consistently and correctly while speaking and writing, participate in conversations covering a wide range of topics, respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, read and analyze important pieces of literature, and take frequent assessments where their language progression can be monitored.

The course is conducted almost entirely in French. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Prerequisite: High School French 2 College Prep • NCAA Approved

FINE ARTS

Available as either semester or full year unless noted.

GRADES 9–12

Music World

Music World is a streamlined course that introduces



students to the history, theory, and genres of music, from the most primitive surviving examples through the classical to the most contemporary in the world at large.

The course is offered in a two-semester format: The first semester covers primitive musical forms and classical music. The second semester presents the rich modern traditions, including: jazz, gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip-hop.

The course explores the interface of music and social movements and examines how the emergent global society and the Internet are bringing musical forms together in new ways from all around the world. Students complete either a performance practicum or a listening practicum throughout the course.

The performance practicum requirement can be met by participation in supervised instrumental or vocal lessons, participation in a church or community choir, community musical performances, or anything that is structured to meet at regular intervals and legitimately provides opportunities for students to build vocal and/or instrumental skills.

The listening practicum requires students to listen to a variety of music genres and comment. Parents or guardians will be required to validate their children's regular participation in the chosen performance or listening practicum.

College Prep

Music Appreciation

Music is part of everyday lives and reflects the spirit of our human condition. To know and understand music, we distinguish and identify cultures on local and global levels. This course will provide students with an aesthetic and historical perspective of music, covering a variety of styles and developments from the Middle Ages through the Twentieth First Century. Students will acquire basic knowledge and listening skills, making future music experiences more informed and satisfying.

College Prep

AP FINE ARTS

GRADES 10–12

AP Art History

The focus of this course is to encourage, engage and enhance student understanding of a variety of artistic forms and genres, ranging from visual expression — painting, sculpture, architectural techniques — to historical themes and the development of specific cultural genres. As students navigate the material, they'll be encouraged to develop their own critical eye through a progressive application of visual analysis and experiential assignments which provide insights into issues such as the fundamental “function” of artistic expression, as well as social impacts.

Prior knowledge of Art History or artistic training are not required in order to effectively take part in this course, as it's designed to be a “doorway” for all levels of experience and academic interest. As an AP course, the level of rigor is equivalent to that required of students in a college freshman or sophomore course in this area of study. The course has been audited and approved by the College Board, the governing body for AP Courses and prepares students for the College Board examination for Art History.

Additionally, students can fulfill the Fine Arts entrance requirement for the University of Florida system by taking this Advanced Placement Fine Arts course, and passing the College Board's AP Fine Arts exam with a score of 3 or higher.”

College Prep • Honors

HEALTH & PHYSICAL EDUCATION (HOPE)

Health

Health is concerned with helping the student learn to respect and care for him or herself. Following the National Health Education standards as well as Florida and Ohio state standards, this course covers such health



concerns as alcohol, tobacco, and other drugs; mental and emotional health; injury prevention and personal safety; nutrition; and personal health and physical activity. Our text uses an eye-catching design and many tools to engage the student in the topics.

Meets Elective Graduation Requirements

ELECTIVES

Available as either semester or full year unless noted. All courses meet elective Graduation requirements unless stated as College Prep.

AP Computer Science Grades 11–12— Full Year

AP Computer Science A focuses on object-oriented programming methodology with a concentration on problem solving and algorithm development. It also addresses the study of data structures, design, and abstraction.

Students who choose AP Computer Science A should have successfully completed Algebra II as well as some previous programming experience, a basic understanding of networks, and knowledge of the responsible use of computer systems (including system reliability, privacy, legal issues, intellectual property, and the social and ethical ramifications of computer use).

As an AP course, the level of rigor is equivalent to that required of students in a college freshman or sophomore course in this area of study. The course has been audited and approved by the College Board, the governing body for AP Courses and prepares students for the College Board examination for Computer Science A.

College Prep • Honors

Art Journal— Semester

Art Journal is a second-semester accompaniment to Journal Writing, or it can stand alone as a singular semester course. Recommended for students with a strong interest in pursuing art studies, Art Journal

explores theoretical and conceptual artistic elements best suited for students with some art background.

It combines personal experience with artistic expression in writing and drawing by encouraging daily reflection on various themes, culminating in a final report.

Astronomy: Exploring the Universe – Semester

Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? Since the first glimpse of the night sky, humans have been fascinated with the stars, planets, and universe that surrounds us.

This course will introduce students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe.

Additional topics include the solar system, the Milky Way and other galaxies, and the sun and stars. Using tools, students will examine the life cycle of stars, the properties of planets, and the exploration of space.

Calligraphy— Semester

Calligraphy offers a beginner’s workshop in learning the art of beautiful writing. The course starts by teaching students how to select the proper pen and hold it correctly, then moves on to training the writer to listen to his or her creative side. Learn to produce unique gifts, stationery and invitations that will be valued by your friends and family. Both Italic and Gothic styles are studied.

Cartooning Animals— Semester

From drawing simple animals to villains, this course teaches the basics of how to draw cartoons for comic strips and other art-related activities.

Students learn how basic elements of shading and coloring can make their own action figures pop right off the page!



Learn how using a triangle and T-square, effective wrist movements and art supplies can help round out your “budding artist” skills. This is a fun course for the creative student.

Creative Writing – Full Year Astronomy

While using proper grammar, punctuation and spelling is important, each student must also develop the writer within. Creative Writing is designed to encourage students to appreciate the joy of writing and heal from past negative experiences with writing. This is an excellent course for students who want an opportunity to express themselves through the written word. The course focuses on all aspects of writing, from personal writing to narrative and expository writing, and culminates with a full-term paper.

Creative Writing – Semester

This is a friendly, student-centered course, written for all skill levels, that fosters creative writing in a variety of forms. Students explore journal writing, poetry, fiction and nonfiction such as letter writing and technical writing.

College Prep

Criminology: Inside the Criminal Mind – Semester

In today’s world, crime and deviant behavior rank at or near the top of many people’s concerns. In this course, we will study the field of Criminology – the study of crime. We will look at possible explanations for crime from the standpoint of psychological, biological and sociological perspectives, explore the categories and social consequences of crime, and investigate how the criminal justice system handles not only criminals, but also their misdeeds.

Why do some individuals commit crimes why others do not? What aspects in our culture and society promote crime and deviance? Why are different punishments

given for the same crime? What factors...from arrest to punishment...help shape the criminal case process?

College Prep

Digital Photography I: Creating Images with Impact! – Semester

Have you ever wondered how photographers take such great pictures? Have you tried to take photographs and wondered why they didn’t seem to capture that moment that you saw with your eyes? The Digital Photography I course focuses on the basics of photography, including building an understanding of aperture, shutter speed, lighting, and composition. Students will be introduced to the history of photography and basic camera functions. Students will use the basic techniques of composition and camera functions to build a portfolio of images, capturing people, landscapes, close-up, and action photographs.

College Prep

Digital Photography II: Discovering Your Creative Potential – Semester

In today’s world, photographs are all around us, including in advertisements, on websites, and hung on our walls as art. Professional photographers have created many of the images that we see. In this course, we will examine various aspects of professional photography, including the ethics of the profession, and examine some of the areas that professional photographers may choose to specialize in, such as wedding photography and product photography.

We will also learn more about some of the most respected professional photographers in history and we will learn how to critique photographs in order to better understand what creates an eye-catching photograph.

College Prep





Drawing Animals—Quarter Term

Share your love of animals by learning to draw the wonderful critters with whom you are sharing your life. Using proper tools and techniques, drawing realistic animals can be accessible and fun for all students of art, from the elementary scribbler to the accomplished artist. Take this course and learn to draw animals, both exotic and familiar, through the use of shapes and shading.

Learn how paying close attention to details will help you see variations in facial features, fur and skin textures and muscle movements. By learning the techniques for background details, you can create nature drawings that will be cherished by family and friends for years to come.

Drawing People—Semester

This course offers step-by-step instruction on how to draw real people and still life. The course begins with exploration of measurement and proportions, then teaches students to create perspective using cubes, lines and cylindrical objects.

Assignments teach students how to use diverse media, including pencil, chalk and charcoal, to draw individual facial features and full facial portraits. Students also learn to draw a wide variety of expressions.

The course curriculum is extremely flexible and can be adapted to offer in-depth, detailed instruction in drawing techniques or an informal introduction to the joys of using art for personal expression.

Forensic Science I: Secrets of the Dead Semester College Prep

Fingerprints. Blood spatter. DNA analysis. The world of law enforcement is increasingly making use of the techniques and knowledge from the sciences to better understand the crimes that are committed and to catch those individuals responsible for the crimes. Forensic science applies scientific knowledge to the criminal justice system.

This course focuses on some of the techniques and practices used by forensic scientists during a crime scene investigation (CSI). Starting with how clues and data are recorded and preserved, the student will follow evidence trails until the CSI goes to trial, examining how various elements of the crime scene are analyzed and processed.

College Prep

Forensic Science II: More Secrets of the Dead – Semester

Although the crime scene represents the first step in solving crimes through forensic science, the crime laboratory plays a critical role in the analysis of evidence. This course focuses on the analysis of evidence and testing that takes place within this setting.

We will examine some of the basic scientific principles and knowledge that guides forensic laboratory processes, such as those testing DNA, toxicology, and material analysis. Techniques such as microscopy, chromatography, odontology, entomology, mineralogy, and spectroscopy will be examined.

College Prep

Great Minds in Science: Ideas for a New Generation – Semester

Is there life on other planets? What extremes can the human body endure? Can we solve the problem of global warming? Today, scientists, explorers, and writers are working to answer all of these questions.

Like Edison, Einstein, Curie, and Newton, the scientists of today are asking questions and working on problems that may revolutionize our lives and world.

This course focuses on 10 of today's greatest scientific minds. Each unit takes an in-depth look at one of these individuals, and shows how their ideas may help to shape tomorrow's world.

College Prep



Health Science: The Whole Individual Semester

Will we ever find a cure for cancer? Meningitis, tuberculosis, and the measles identified and diagnosed? Health sciences provide the answers to questions such as these. In this course, students will be introduced to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology.

They will explore the importance of diagnostics and research in the identification and treatment of diseases. The course presents information and terminology for the health sciences and examines the contributions of different health science areas.

College Prep

History of the Holocaust – Semester

Holocaust education requires a comprehensive study of not only times, dates, and places, but also the motivation and ideology that allowed these events. In this course, students will study the history of Antisemitism; the rise of the Nazi party; and the Holocaust, from its beginnings through liberation and the aftermath of the tragedy.

The study of the Holocaust is a multi-disciplinary one, integrating world history, geography, American history, and civics. Through this in-depth, semester-long study of the Holocaust, high school students will gain an understanding of the ramifications of prejudice and indifference, the potential for government-supported terror, and they will get glimpses of kindness and humanity in the worst of times.

College Prep

Hospitality & Tourism: Traveling the Globe – Semester

With greater disposable income and more opportunities for business travel, people are traversing the globe in growing numbers. As a result, hospitality and tourism is one of the fastest growing industries in the world.

This course will introduce students to the hospitality

and tourism industry, including hotel and restaurant management, cruise ships, spas, resorts, theme parks, and other areas.

Student will learn about key hospitality issues, the development and management of tourist locations, event planning, marketing, and environmental issues related to leisure and travel. The course also examines some current and future trends in the field.

College Prep

Law & Order: Introduction to Legal Studies – Semester

Every society has laws that its citizens must follow. From traffic laws to regulations on how the government operates, laws help provide society with order and structure. Our lives are guided and regulated by our society's legal expectations.

Consumer laws help protect us from faulty goods; criminal laws help to protect society from individuals who harm others; and family law handles the arrangements and issues that arise in areas like divorce and child custody.

This course focuses on the creation and application of laws in various areas of society. By understanding the workings of our court system, as well as how laws are actually carried out, we become more informed and responsible citizens in our communities and of our nation.

College Prep

Mathematics for College Success – 1200410

This course is targeted for students who are not yet “college ready” in mathematics. This course incorporates the Florida Standards for Mathematical Practices as well as the following Florida Standards for Mathematical Content: Expressions and Equations, The Number System, Ratios and Proportional Relationships, Functions, Algebra, Geometry, Number and Quantity, Statistics and Probability, and the Florida Standards for High School Modeling.



The standards align with the Mathematics Postsecondary Readiness Competencies deemed necessary for entry-level college courses.

Pre Algebra — Full Year

Pre Algebra provides students with a solid preparation for algebra and geometry. Students will build on previously developed arithmetic skills to expand their algebraic thinking skills. Students will cover topics including solving equations and inequalities containing fractions and decimals, ratios, linear functions, graphing, spatial thinking, finding area and volume of geometric figures, and right triangles.

The program also provides numerous opportunities to assess basic skills along with abundant remediation and intervention activities found throughout the course.

Students have access to practice exercises and will also utilize many resources, within the classroom and beyond which will help to solidify the concepts covered throughout the course.

Public Speaking — Semester

The art of public speaking is one which underpins the very foundations of Western society. This course examines those foundations in both

Aristotle and Cicero's views of rhetoric, and then traces those foundations into the modern world. Students will learn not just the theory, but also the practice of effective public speaking, including how to analyze the speeches of others, build a strong argument, and speak with confidence and flair.

By the end of this course, students will know exactly what makes a truly successful speech and will be able to put that knowledge to practical use.

College Prep

Reading for College Success

This course is targeted for students who are not “college-ready” in reading. This course incorporates reading and analysis of informational selections to develop critical reading skills necessary for success in college courses.

This course prepares students for successful completion of Florida college English language arts courses requiring extensive grade-level reading. The benchmarks reflect the Florida College Competencies necessary for entry-level college courses.

Video Production — Semester

This dynamic multimedia course will introduce students to the fundamental principles and mechanics of film making. Working through the 18-lesson structure, you will be exploring the various facets of professional videography: cinematography and lighting, editing basics, pre-production and planning, rules of composition, diegetic and non-diegetic sound and the art of visual storytelling.

A variety of assignments will allow aspiring auteurs to not only get their feet wet with various field exercises and Milestone movie projects but to also gain an understanding of what goes on “behind the scenes” through applied critical thinking and problem solving.

In order to successfully complete assignments for the Video Production course, students must own or have ready access to the following: a video camera (virtually any digital camcorder will do, from recreational models such as the Sony Flip to a commercial-grade HD model such as the Canon Vixia) and editing software: for either Mac (Final Cut, iMovie or Adobe Premiere) or PC (AVID, Windows Movie Maker or Adobe Premiere/ Elements).

Vocabulary for the SAT — Full Year

This elective course is designed to increase students' vocabulary and reading comprehension as they prepare



to take the ACT and SAT exams. Listening to a CD with 13 original, hip songs, using more than 250 ACT/SAT words, students practice drills with these same words in dozens of exercises included in the accompanying McGraw-Hill text.

They also work their way through the Sadlier-Oxford text as they master hundreds of words, plus their classic roots, synonyms, antonyms and other grammatically related components.

In addition, students have access through the course to interactive games, puzzles and dictionaries, which they can use to further supplement their studies. This course can be taken for a full year or as a one-semester course.

Vocabulary for the SAT — This elective course is designed to increase students' vocabulary as they prepare to take the ACT and SAT exams. Working with over 200 vocabulary words that are most commonly used on the SAT exam, the students will master hundreds of words, plus their classic roots, synonyms, antonyms, and other grammatically related components.

Students will create connections, practice word usage, and create study guides to later help them in preparing for the SAT and ACT. In addition, students have access to interactive Games, Puzzles, and Dictionaries, which they can use to further supplement their studies.

College Prep

Writing for College Success — 1009370

This course is targeted for students who are not “college-ready” in writing. This course incorporates language study, the practice of writing craft strategies, and the analysis of writing selections to develop critical writing skills necessary for success in college courses, preparing students for successful completion of Florida college English courses requiring extensive grade-level writing. The benchmarks reflect the Florida College Competencies necessary for entry-level college courses.



RUSH EDUCATION

2022-2023 COURSE

CATALOG GRADES 6-8



MIDDLE SCHOOL COURSE OFFERINGS

GRADE 6

Advanced Level Language Arts 600

In Language Arts 600, students will delve into texts that span the genres of narrative fiction, poetry, literary nonfiction, and informational texts to build reading, writing and thinking skills. Students will also develop their writing skills as they focus on the six traits while producing narrative, argumentative, and explanatory compositions, as well as creative pieces including poetry. The course concludes with students completing a full research report. With a strong emphasis on close reading instruction, writing and thinking activities, as well as speaking and listening tasks, this course will help students expand their understanding of literature while building 21st century skills. Multimedia and interactive elements are built into every lesson to ensure a high level of student engagement.

Advanced Level Mathematics 600

This course begins by connecting ratio and rate to multiplication and division, allowing students to use ratio reasoning to solve a wide variety of problems. They further apply their understanding of multiplication and division to explain the standard procedure for dividing fractions. This course builds upon previous notions of the number system to now include the entire set of rational numbers. Students begin to understand the use of variables as they write, evaluate, and simplify expressions. They use the idea of equality and properties of operations to solve one-step equations and inequalities. In statistics, students explore different graphical ways to display data. They use data displays, measures of center, and measures of variability to summarize data sets. The course concludes with students reasoning about relationships among shapes to determine area, surface area, and volume.

Advanced Level History and Geography 600

History and Geography 600 focuses on World History, with an emphasis on Western Europe. Specifically, it covers World History from ancient civilizations through the end of the 20th century, highlighting the Middle Ages and the two World Wars. These areas of focus target three major content strands: History, Geography, and Social Studies Skills.

Advanced Level Comprehensive Science 1

Science 600 is a basic intermediate course intended to expose students to the designs and patterns in the physical universe. This course expands on the Science 300-500 elementary courses, providing a broad survey of the major areas of science. Some of the areas covered in Science 600 include the study of plant and animal systems, plant and animal behavior, genetics, the structure of matter, light and sound, kinematics, planet earth, the solar system, and astronomy.

GRADE 7

Advanced Level Language Arts 700

Language Arts 700 is a thematic study of literature that explores accounts of earth, space, and survival. Throughout this course, students will delve into texts that span the genres of narrative fiction, poetry, literary nonfiction, and informational texts. Students will demonstrate their understanding of various works by analyzing how common themes like exploration, innovation, and courage are able to transcend diverse time periods and genres. They will also develop their writing skills as they focus on the six traits while producing argumentative, narrative, and expository compositions. With a strong emphasis on close reading instruction, research activities, and speaking and



listening tasks, this course will help students expand their understanding of literature while building 21st century skills.

Advanced Level Mathematics 700

This course begins with an in-depth study of proportional reasoning where students utilize concrete models such as bar diagrams and tables to increase and develop conceptual understanding of rates, ratios, proportions, and percentages. Students' number fluency and understanding of the rational number system are extended as they perform operations with signed rational numbers embedded in real-world contexts. In statistics, students develop meanings for representative samples, measures of central tendency, variation, and the ideal representation for comparisons of given data sets. Students develop an understanding of both theoretical and experimental probability.

Throughout the course students build fluency in writing expressions and equations that model real world scenarios. They apply their understanding of inverse operations to solve multi-step equations and inequalities. Students build on their proportional reasoning to solve problems about scale drawings by relating the corresponding lengths between objects. The course concludes with a geometric analysis of angle relationships, area, and volume of both two and three-dimensional figure.

Advanced level Civics 700

This course is designed to reinforce the meaning of civics and the purpose of government; identify what distinguishes a democracy from other forms of government; identify the goals of the government; examine the roles of government as outlined by the US Constitution; examine the Bills of Rights and why it was added to the US Constitution; analyze the reasoning behind the founding fathers need to separation of powers; explain the structure and function of the Legislative, Executive and Judicial branches of Government; Students will understand: identify the

purpose of foreign policy and explain the role of political parties in the US; describe the difference between primary and general elections; identify what influences people's opinions and explain what makes them an informed citizen; evaluate the four ways that all citizens can participate in government.

Additionally the four quarter of the class is comprises of an overview of microeconomics which will introduce the foundation of a market economy; the role of government in the various economic systems; and the production, distribution and marketing of goods and services.

Students will be introduced to the geographic features of the United States and Canada.

Advanced Level Comprehensive Science 2

Science 700 is a basic intermediate course intended to expose students to the designs and patterns in the physical universe. This course expands on the Science 600 course, providing a set of basic scientific skills and a broad survey of the major areas of science. Some of the areas covered in Science 700 include the scientific method, overview of the four major areas of science, mathematics in science, astronomy, the atmosphere, natural cycles, weather and climate, human anatomy and physiology, and careers in science.

GRADE 8

Advanced Level Language Arts 800

Language Arts 800 is a survey of literature that explores the work of various writers of different time periods through a historical lens. Students should enter this course with a foundation in analyzing, through a close study, various genres of literature and making connections with historical perspectives and the arts. In this course, students will build on these skills by studying a range of classic and contemporary literature to convey themes of American History, Natural History, World Civilization, and Air and Space. Students will also develop their writing skills while producing informative,



argumentative, and narrative compositions. Supported by a balance of fictional and informational texts, students will learn and practice close reading, modeled reading, writing, speaking, and listening strategies.

Advance Level Pre-Algebra

This full-year course is designed for students who have completed a middle school mathematics sequence but are not yet Algebra-ready. This course reviews key algebra readiness skills from the middle grades and introduces basic Algebra I work with appropriate support. Students revisit concepts in number and operations, expressions and equations, ratio and proportion, and basic functions. By the end of the course, students are ready to begin a more formal high school Algebra I study.

Advanced Level U.S. History

The course focuses on studying American History from the Exploration and Colonization period to the Reconstruction Period following the Civil War. Students will be exposed to the historical, geographic, political, economic, and sociological events that influenced the United States' development and the resulting impact on world history. So that students can see the relationship between cause and effect in historical events.

Students should have the opportunity to explore those fundamental ideas and events that occurred after Reconstruction.

Advanced Level Comprehensive 3

Science 800 is a basic intermediate course intended to expose students to the designs and patterns in the physical universe. This course expands on Science 600 and Science 700, providing a set of basic scientific skills and a broad survey of the major areas of science. Some of the areas covered in Science 800 include the structure and properties of matter, measurement and

mathematics of science, geology, oceanography, natural cycles and resources, science today and tomorrow, and astronomy.



RUSH EDUCATION

2022-2023 COURSE

ELEMENTARY CATALOG



ELEMENTARY SCHOOL COURSE OFFERINGS

LANGUAGE ARTS 200

Language Arts/Reading 200 course builds core language arts and reading skills with opportunities for students to engage with different types of texts and writing structures.

LANGUAGE ARTS 300

Language Arts/Reading 300 builds on students' basic language arts and reading skills by engaging them with different types of texts and a variety of writing forms and structures. The course helps students develop their command of the conventions of Standard English in writing and speaking, including grammar and usage, capitalization, punctuation, and spelling. It also helps students expand their vocabulary and develop their listening skills. Course topics include:

- Nouns and Pronouns
 - Writing Personal Narrative
 - Explanatory Writing
 - Verbs, Adjectives, and Adverbs
 - Opinion Writing
 - Writing That Compares
 - Expository Writing
 - Writing a Story
-

LANGUAGE ARTS 400

Language Arts 400 focuses on the sequential development and integration of communication skills in four major areas — reading, writing, speaking, and listening. It most specifically focuses on deepening and furthering students' understanding in the following ways: Reading, Writing, Listening, and Special topics.

LANGUAGE ARTS 500

Language Arts 500 students will deepen their understanding of concepts about text and comprehension strategies. They will have many opportunities to apply what they have learned by integrating language arts with other subjects. Students will use writing as a tool for learning, and they will write for a variety of purposes and audiences. They will write in a variety of genres.

They will apply what they have learned about the author's craft to their pieces. Fifth graders will increase their vocabulary by being involved in classroom discussion and word study.

MATH 200

Math 200 is a comprehensive course in various aspects. It begins by examining different and progressively challenging types of addition and subtraction. From there, it continues on to different types of graphs, surveys, and line plots, followed by counting money and telling time. Students will explore measurements, fractions, and different ways to skip count before completing the course with a small introduction to multiplication and division.

MATH 300

Math 300 provides an engaging learning experience for creative minds. Throughout this course, students learn about multiplication and division strategies within 100. They develop a strong foundation of fractions wherein they examine and compare fraction size. Students study rectangular arrays and solve to find the area of rectangles. They analyze two-dimensional shapes and their various attributes.



MATH 400

Math 400, students focus most on using all four operations - addition, subtraction, multiplication, and division - to solve multi-step word problems involving multi-digit numbers. Fourth-grade math extends their understanding of fractions, including equal (equivalent) fractions and ordering fractions

MATH 500

Math 500 This course is designed to foster the development of number sense, with greater emphasis on decimals and fractions. Students with good number sense understand the meaning of numbers, develop multiple relationships and representations among numbers, and recognize the relative magnitude of numbers. They should learn the relative effect of operating on whole numbers, decimals and use mathematical symbols and language to represent problem situations. Number and operation sense continues to be the cornerstone of the curriculum.

SCIENCE 200

The Grade 2 Science course investigates animal life, plant life, weather, water, and physics, as well as technology and astronomy.

Course topics include:

- Plants and Animals
 - Food Chains and Life Cycles
 - Earth's Resources
 - Weather and Seasons
 - Matter, Energy, Forces, Motion, and Sound
 - Space and Technology
-

SCIENCE 300

Science 300 Students will investigate topics in life, Earth, and physical science. Students will explore states of matter, energy in different forms, force and

motion, Earth's natural processes, the solar system, ecosystems, and energy between organisms. Different types of scientists are introduced throughout this course, and students are encouraged to investigate how something works.

SCIENCE 400

Science 400 students are becoming more sophisticated in their ability to explain and describe scientific concepts. They will speculate about the observations they make. They will also connect the topics they are learning about to their own experiences.

Fourth graders explore three different branches of science this year: physical science, life science, and earth & space science.

Scientific inquiry and investigation:

- Changes in matter and energy
 - Engineering & technology
 - Solar System & Universe
 - Living things, life cycles, and food webs
-

SCIENCE 500

Students will learn through engaging activities and virtual investigations as they discover new concepts that focus on the matter, Earth, and space at this level including:

- Properties of matter,
 - Chemical changes,
 - Ecosystems,
 - Interacting with Earth
-

SOCIAL STUDIES 200

Social Studies 200 course begins to explore how the student fits in the world as a member of a community, a country, and the world. It introduces maps and discusses how industry and government work in the U.S.A. Grade



2 Social Studies presents US History from the early Native American period to the Civil War and finishes with an introduction to world history.

SOCIAL STUDIES 300

Social Studies 300 focuses on the importance of communities-how they work together, how varying conditions may affect them, and how they have evolved over time. Students learn about United States history and the events that brought our nation to what it is today. They will study commerce, currency, and decision-making in connection with saving and spending.

SOCIAL STUDIES 400

Social Studies 400 -focus heavily on history and government where students continue to build a foundation of geography, economics, civics, and history knowledge this year.

- Prehistoric and Ancient Civilizations
 - U.S. Revolution
 - Geography Tools and Vocabulary
 - U.S. Civics
 - Economics
 - Current Events
-

SOCIAL STUDIES 500

A fifth-grade social studies curriculum offers students an opportunity to not only learn about the history of the country they live in but also other parts of the world. This information allows them to explore the differences and similarities they share with other cultures, as well as discover how different societies from long ago contributed to their inventions and ideas that are a part of our lives today.



RUSH
EDUCATION



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