

GaDOE Career, Technical, and Agricultural Education

CTAE

Career, Technology, Agriculture, and Engineering

CTAE pathways

- Aerospace Science (JROTC)
- Audio-Video Technology
- Computer Science
- Diagnostics/Clinical Lab
- Engineering & Technology
- Web Development

- Law Enforcement Services& Forensic Science
- Sports & EntertainmentMarketing
- Nutrition & Food Science
- Teaching as a Profession
- Work-Based Learning

Aerospace Science

Integrity
Service Before Self &
Excellence in All We Do!

Major (ret) Marlon Ayers Chief Master Sgt (ret) Rodney Deese



What do we do in ROTC?

Mission: "Develop citizens of character dedicated to serving their nation and community."

Leadership & Aerospace Science Courses:

1st Year:

Citizenship & Aviation History

2nd Year

Communication & Science of Flight

3rd Year

Career Exploration & Exploring Space

4th Year

Principles of Management & Global Cultural Studies

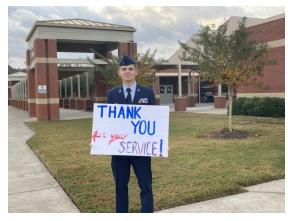
Earn:

1 full credit for Physical Health & Science Leadership & Employability graduation seal

Direct promotion to rank of E-3 in armed services with three years of JROTC



Warner Robins CIA



Veteran's Day



New Cadet Boot Camp



Female step team

Cadets in Action



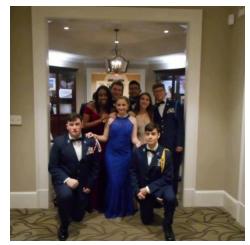
Citadel Leadership Team



Homecoming Parade



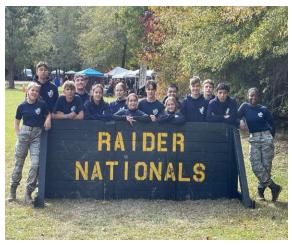
Cadet Led Promotion Board



Military Ball



Senior Night



Raiders

Additional Activities for Cadets

- Staff Planning Committee
- Cadet Social Committee
- Military Ball Planning Team
- Family & Sports Day Committee
- Armed Drill Team/Special Events
- Honor Guard
- Saber Team
- Kitty Hawk Honor Society
- Female (Exhibition) Drill/Step Team
- Drill Team
- Raider Team
- National Anthem Singers

- Inspections Team
- Recruiting Team
- Media Team
- Finances
- Physical Training Leaders
- Logistics
- Personnel (Data Entry and Management)
- Facilities (Conduct inspections on JROTC equipment and facilities)
- Fundraising

STEM Teams

- CyberPatriot
- Model Rocketry
- U.A.S.
- J.L.A.B.
- StellarXplorers
- Robotics









Audio-Visual Technology

Mr. James Dinsmoor



- YEAR I Foundations
- YEAR II News Team
- YEAR III Broadcast News Production

- YEAR I Foundations
- YEAR II Intro to Film Production
- YEAR III Film Production Applications

Broadcasting

- Current Events
- Camera Operation
- Journalism
- On Location Reporting
- Studio Jobs
- Production Equipment
- Script Writing
- Team Building



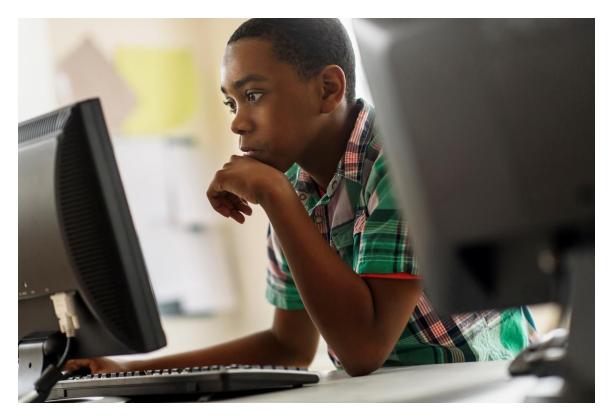
Film Production

- Production Assistant
- Gaffer
- Set Design
- Grip
- Editor
- Special Effects
- Animation
- Film Festivals



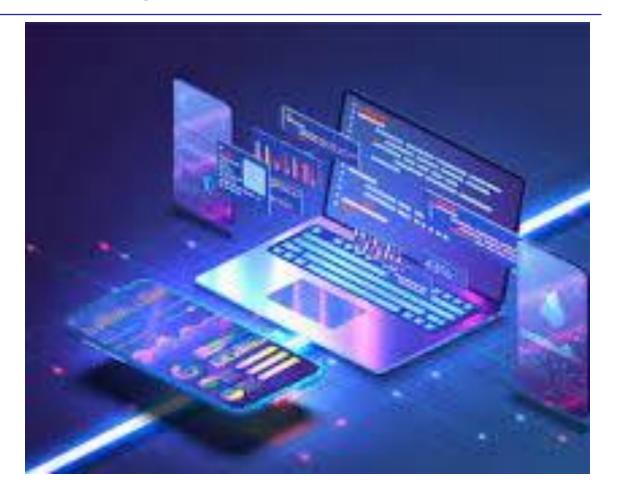
Computer Science

Ms. Beckie Lee



Computer Science Pathway

- Introduction to Software Technology
- AP Computer Science Principles
- AP Computer Science A

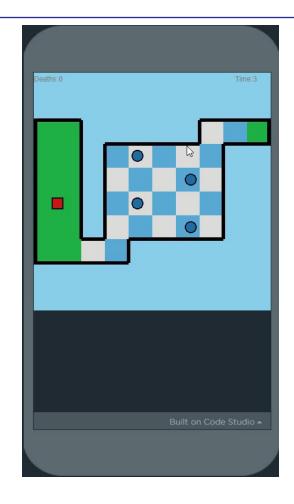


Introduction to Software Technology

- Foundational course for several Computer
 Science pathways.
- Hands-on activities and project-focused tasks.

In this course students learn:

- Programming languages
- Software development
- Creating user interfacing applications
- Employability skills incorporated throughout the course:
 - Communication skills
- Problem-solving
 - Ethical and legal issues
 - Presentation skills



AP Computer Science Principles



- Second course in several Computer Science pathways
- Hands-on activities and project-focused tasks
- Introduces students to the breadth of the field of computer science

In this course, students will learn:

- How computing systems and the internet work
- How data and images are stored as binary information
- How to create apps using JavaScript and data
- Students who earn a qualifying score on an AP Exam are typically eligible, in college, to receive credit, placement into advanced courses, or both

AP Computer Science A (Java)

Third course in the Computer Science pathway.

Object-oriented programming and design using the Java programming language.

In this course, students will learn:

- Design of solutions to problems
- Use of data structures to organize large sets of data
- Development and implementation of algorithms to process data
- Analysis of potential solutions
- Ethical and social implications of computing systems.

```
Palindromes, iava
 1 - import java.util.Scanner;
2 public class Palindromes
                                                                        Connecting to your server ...
                                                                        Connected.
        public static void main(String[] args)
            //User input and call method
            System.out.println("Type in your text: ");
            Scanner input = new Scanner(System.in);
            boolean result = isPalindrome(input.nextLine());
            if(result)
11 +
                System.out.println("Your word is a palindrome!
            else
15 +
16
                 System.out.println("Not a palindrome :(");
17
18
19
20
21 +
         * This method determines if a String is a palindrome,
23
         * which means it is the same forwards and backwards.
```



Computer Science Honor Society

Membership is by invitation only after students have met the eligibility requirements

- Completed at least one semester of rigorous computer science coursework
 - 80 % or the equivalent standard of excellence in computer science courses;
 - Demonstrate service and leadership.

Graduation Honor Cord

- 10 hours of Community service/year
 - 5 hours computer science related
- 2 years of membership
- Minimum 2 advanced CS courses
- Regular attendance to meetings (3 per year, one per quarter)

Community Outreach

- Computer Science Education Week (Encourage others to do 1 hour of code)
- Community workshops

Diagnostics/Clinical Lab

Ms. Callie Davis, Ed.S., M. T. (ASCP)

Healthcare Pathway

- Introduction to Healthcare
- Essentials of Healthcare
- Clinical Laboratory Science







Introduction to Healthcare



(8th, 9th & 10th grade)

- 1st year course
- Healthcare Science careers
- Healthcare Facilities
- Employability, communication, and technology skills
- Human growth and development
- Legal & ethical responsibilities
- Basic life support and First Aid
- CPR Certification
- Vital Signs

Essentials of Healthcare



(9th, 10th & 11th grade)

- 2nd Year course
- Heavy Biology Vocabulary
- Medical-focused anatomy course
- Physiology of each body system
- Investigation of common diseases, disorders and emerging diseases
- Prevention of disease and the diagnosis and treatment
- Medical terminology related to each system

Clinical Laboratory Science



(11th & 12th grade)

- Fundamental clinical laboratory assistant skills
- Laboratory equipment
- Safety in the lab
- Quality control and quality assurance
- Chemistry & Microbiology
- Phlebotomy skills
- Vital Signs
- CPR Recertification

What do I earn?

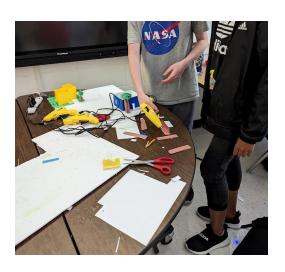
- CPR Certification
- First Aid Training
- Stop the Bleed Training
- HIPAA Training
- Bloodborne Pathogens Training
- OSHA 10-hour Certification
- Phlebotomy & Order of Draw Training
- Quality Control & Quality Assurance
 Training
- Point-of-Care Testing (Blood Glucose Meters)
- Waived Testing (FDA approved such as Pregnancy tests)

Diploma Seals

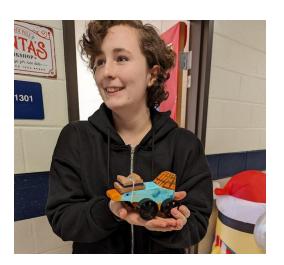
- Employability
- Pathway
- Leadership

Engineering & Technology

Ms. Judi Haggerty







Engineering Pathway

- Foundations of Engineering & Technology
- Engineering Concepts
- Engineering Applications
- Research, Design & Product Management
- Students leave the course with
 - OSHA certification,
 - Georgia BEST certification
 - Microsoft Office certifications



Foundations of Engineering & Technology

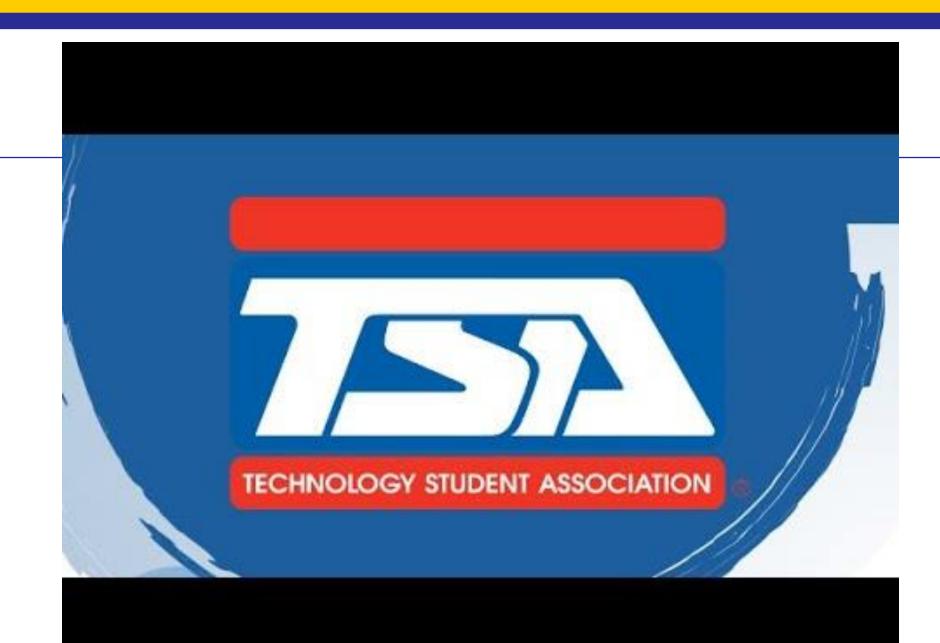


- Learn the Engineering Design Process
- Explore types of Engineering
- Solve Problems
- Get Involved in Technology
 Student Association

Engineering Concepts

- Use the Engineering Design Process
- Solve Problems using types of Engineering
- Become OSHA certified
- Get more involved in Technology Student Association









Law Enforcement & Forensic Science

Mr. Jonathan Jeffries

Mr. Lee Whitaker



Law & Justice Pathway

- Year 1: Introduction to Law,
 Public Safety & Security
- Year 2: Criminal Justice Essentials
- Year 3: Forensic Science & Criminal Investigations



Criminal Justice Highlights

- Police Tactics
- Mock Trial
- Crime Scene processing
- Guest Visits
- Traffic Stops
- Defensive Tactics



Applicable Careers

- Defense Attorney
- Prosecutor
- Civil lawyer
- Judge
- Police officer
- K-9 officer
- Sheriff
- Military
- Detective
- CSI

- Sheriff's deputy
- ProbationOfficer
- Prison officer
- Warden
- EMS
- Firefighter



Sports & Entertainment Marketing

Mrs. Katie Thompson

"I earned my four-year degree in Business Management with a Minor in HR from Kennesaw State University. During my time in the business industry, I managed multiple fortune 500 businesses with much success. After realizing the call to teach was still very much present, I went back and earned my master's in education from Liberty University".

Course Sequence

•Marketing Principles - Marketing Principles is the foundational course for the pathway. Students develop a This course provides students opportunities to develop basic understanding of employability, foundational business and marketing skills, economics, entrepreneurship, marketing information management, product/service management, promotion, selling, and channel management and distribution. Instructional projects with real businesses, work-based learning Positioning, and Marketing Planning. activities including School-Based Enterprises, and DECA application experiences should be incorporated in this course.

 Introduction to Sports and Entertainment **Marketing-** This course introduces the student to the major segments of the Sports and Entertainment Industry and the social and economic impact the industry has on the local, state, national, and global economies. The products and services offered to consumers and the impact of marketing on these products and services are examined.

 Advanced Sports and Entertainment Marketingmanagerial and analytical skills and deepen their knowledge in sports/entertainment marketing. Topical units include: Marketing Information Management, Selling, Publicity/Public Relations, Sales Promotion,

Management of Promotion, Product Mix, Pricing,

The Pathway sets students up to have hands on experience with School Based Enterprises, Real Business experience, Work-Based Learning opportunities & Will learn DECA foundational skills.

What does Marketing look like?

In Sports & Entertainment Marketing we do a mixture of traditional learning and hands-on projects. The projects are built and structured to give them building blocks to launch creativity into reality. These blocks are built on through hands-on experience with our business partners and school-based enterprise. This really sets them up for success in Work-Based Learning and in being ready to enter the workforce. We love to take field trips through marketing to visit places like Truist Park, Mercedez Benz and are hoping to add more to our rotation!





What do I earn?

After leaving the S& E Pathway, students can potentially earn Microsoft Certifications, Canva training, Photoshop and Illustrator Training and hopefully soon an EOPA that translates to Marketing College Credit. Students will also gain hands on business skills involved in running the school-based enterprise.





DECA

DECA prepares emerging leaders and entrepreneurs for careers in marketing, finance, hospitality and management in high schools and colleges around the globe. At the school level, we focus on serving our community and creating a place for all students to serve. On the competition side, we focus on building skills to grow as individuals entering the workforce. The competitions and the CTSO itself helps place students with access to exclusive scholarships, college building opportunities and skills to help those entering straight into the workforce. This year we've grown our CTSO to be the largest at the school and we are so excited to keep building on that!

DECA has had the opportunity to travel to such great places to compete like Six Flags, Downtown Atlanta, North Carolina, Texas, Washington D.C., California, and many more!













This Photo by Unknown author is licensed under CCBY.

Nutrition & Food Science

Ms. Allison Talley



Food & Nutrition Pathway

Year 1: Food, Nutrition, and Wellness

Year 2: Food for Life

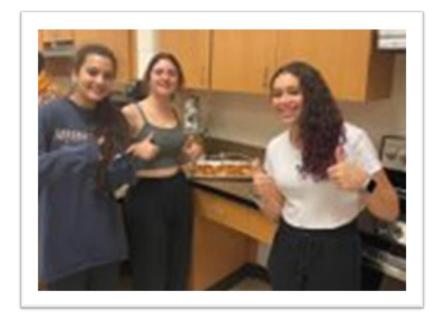
Year 3: Food Science



Family, Career & Community Leaders of America



- CTSO
- Make a dinner for ROTC
- Parade
- Field Trips: Perry Fair



What do we learn?



Basic culinary skills and working of the kitchen



Impact of nutrition on the body



Earn a science credit after completion. Counts toward graduation



Safe Serve Certified

Teaching as a Profession

Ms. Erin Heinzer







Teaching as a Profession Pathway

 Year 1: Examining the Teaching Profession

 Year 2: Contemporary Issues in Education

Year 3: Teaching as a Profession

Practicum



What do we achieve?

TEACHING AS A PROFESSION

Project-based Learning
Career Exploration and Readiness
Technical Skills Practice
Leadership Development
College Credit Opportunity

- Introduced to a career in education.
- Students that complete the pathway successfully will earn 3 college credits.

Opportunities for:

- leadership
- career-ready skills in the teaching profession.

Work-Based Learning

Ms. Nicole Gibson Work-Based Learning





Georgia's Future Workforce









"Selective" vs. "Elective"

- Students are selected for the program after a careful review of their grades, related coursework, attendance, and discipline. Counselor and WBL Coordinator approval is required.
- Students are not in a class setting, so information is communicated using the teacher's Canvas page, REMIND, via email, and at class meetings. Since the program is structured this way, it is extremely important for the student to be responsible, self-motivated, and organized.
- Students are REQUIRED to check (and <u>READ</u>) email DAILY and respond as requested.
- Students are REQUIRED to sign in/out daily and meet with the teacher as directed.

Work Hour Requirements

- Work hours equate to class seat time and the minimum number must be met to earn credit for the course. *The minimum number of hours must be worked* **every** week (no "banking hours").
 - o <u>1 period of exit</u> = 5 hours of work per week
 - 2 periods of exit = 10 hours of work per week
 - 3 periods of exit = 15 hours of work per week
 MOST OF THESE HOURS MUST BE WORKED MONDAY FRIDAY.
- Students are not required to work over school breaks, unless otherwise required by the employer. <u>Request time off with as much notice as possible. Time off is a Privilege NOT a right!</u>

Fine Arts

Earn a Fine Arts Diploma Seal









Fine Arts Diploma Seal

- A Georgia Department of Education endorsement
- Signals you are prepared for entry level industry work
- Counts as a pathway completion
- Requirements:
 - Complete four courses in Fine Arts
 - At least three in one discipline
 - Complete a capstone project
 - Complete 20 hours in related community service

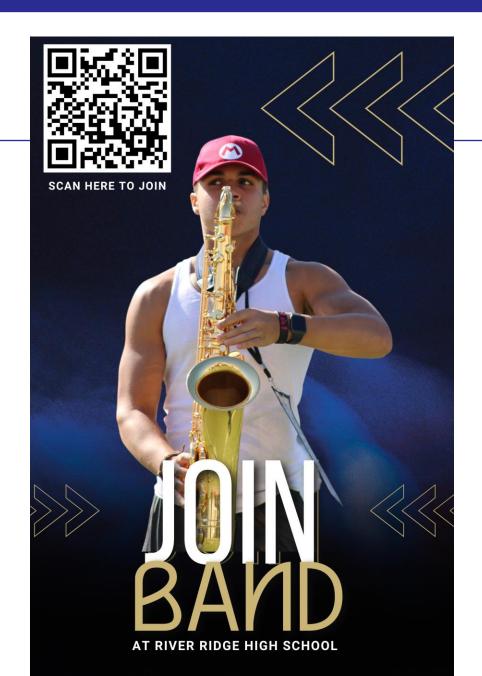


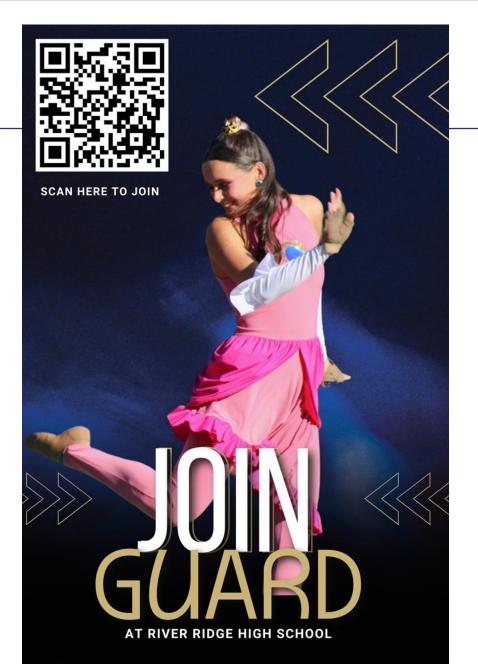
Band

Mr. Josh Tyree - Director

What do we do in band?







Visual Arts

Dr. Chris Akins and Ms. MaryJo Mulvey



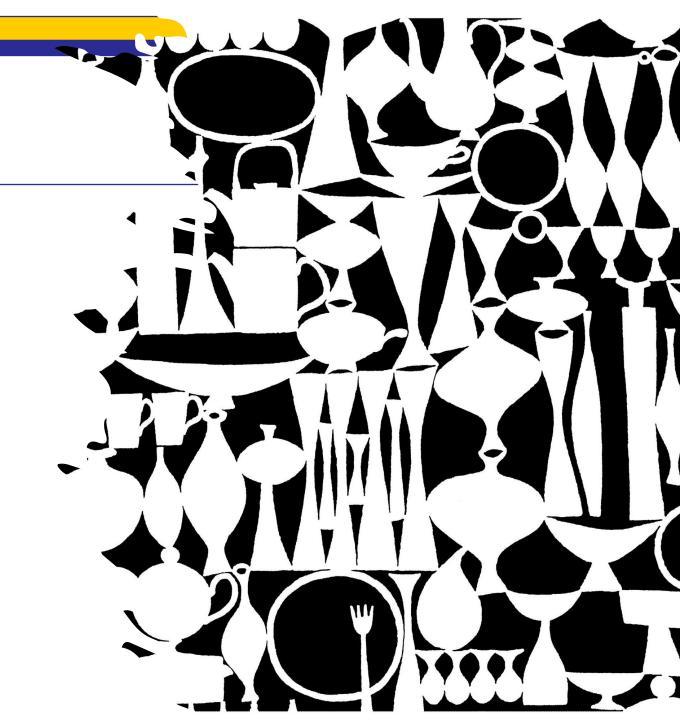
What do you learn in Visual Arts?

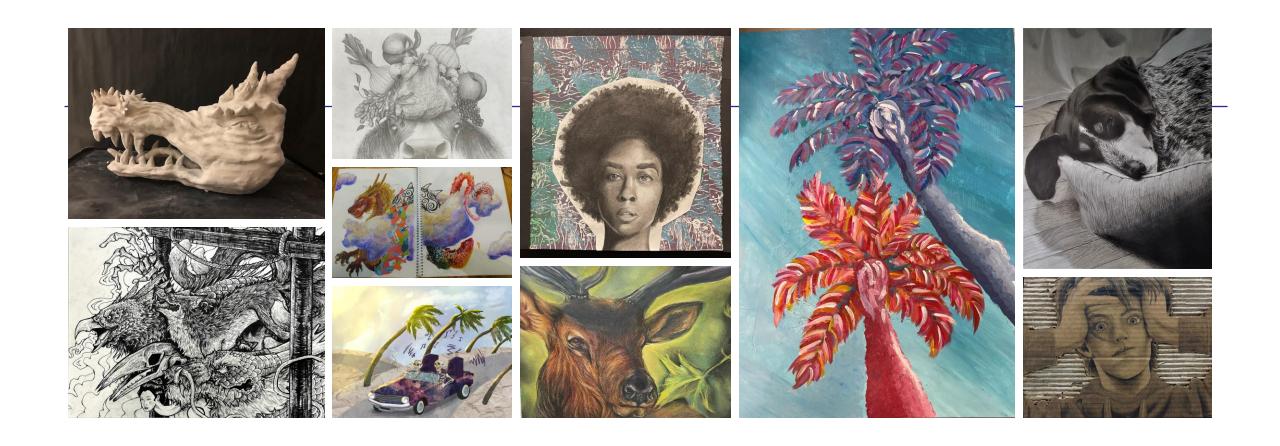
- How to solve problems when starting from scratch
- How to be creative
- How to create visually pleasing designs
- How to get over the fear of failure
- How to share your ideas with others
- How to express yourself in positive ways
- How to draw, paint, sculpt, stamp, print, decorate, etc...



Classes offered in Visual Arts

- Visual Arts 1- The beginning class for all other classes
- Visual Arts 2
- Drawing 1 & 2
- Painting 1 & 2
- Ceramics 1 & 2
- Digital Design 1 & 2
- AP Drawing
- AP 3-D
- AP 2-D design





Student Artworks

Orchestra

Mr. Greg Roman - Director

Various orchestras for all skill levels

Intermediate

- No audition required.
- New students to the school usually start here.

Advanced

- No audition required.
- Mostly 10th 12th graders.

Mastery

- Audition required.
- All grade levels are welcome. All placements within this ensemble are at the director's decision.



Other ensembles

Full Orchestra/Symphony Orchestra

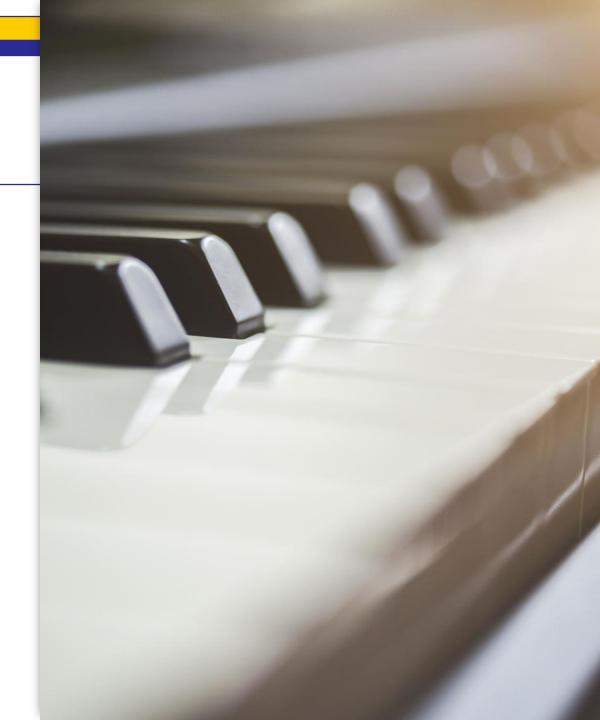
- Includes strings, brass, woodwinds, percussion, and chorus.
- Open to all students and skill levels.
- Meets after school once a week.

Chamber Ensembles

- Small groups, (i.e., trios, quartets, etc.)
- Open to all students and skill levels.

Community Ensembles

GYSO, MYSO, AYSO, etc.



Events

- All students are welcome and encouraged to participate in the following events. All skill levels are welcome.
 - Large Group Performance Evaluation (all orchestras and students)
 - All-State
 - District Honors Orchestra
 - Solo and Ensemble
 - Kennesaw State North Georgia Honors Orchestra
 - Southern Star Music Festival



Beginning Guitar 1 and 2

Beginning Guitar 1

- Want to learn the guitar? This is where you need to be!
 - You will learn the basics of the guitar
 - How to read music
 - Have a lot of fun

Beginning Guitar 2

- Already know how to play the guitar? This is where you need to be!
- You will learn the basics of the guitar
- How to read music
- Basics of performance
- Chords
- Small solo or ensemble performances

Chorus

Dr. Allison Baccala- Director





Classes Offered & Opportunities









- Intermediate Treble Chorus 9th-12th sopranos/altos
- Advanced Treble Chorus 10th-12th sopranos/altos (non-audition)
- Mastery Treble Chorus sopranos/altos (audition only 10th-12th grade)
- Tenor/Bass class all tenors and basses

Additional opportunities

- District 9 Honor Chorus
- All-State Honor Chorus
- Literary Meet
- Large Group Performance Evaluations
- B'acappella

What else do we do in chorus?

- Learn to read music!
- Perform at least 4 concerts each year!
- Optional performances
 - Guest performances at special events
 - National Anthem at football games, Braves games
 - Competition performances/trips
 - Solo opportunities
 - Holiday Lights of Hope
 - College Choral Days
- Social Events Ice cream party,
 Holiday parties









Theatre

Mr. Rob Fields- Director



Theatre Classes

Acting Classes

- Fundamentals of Theatre 1 & 2
- Advanced Drama 1, 2, 3, 4

Technical Classes

- Tech Theatre 1, 2
- Advanced Drama 1, 2, 3, 4



What do we do in class?

Fundamentals and Advanced classes teach you not only how to act on stage/camera, but also how to interact in you daily life, school, college, career. These classes teach on acting... with a focus on INTER-Acting."

"We build & paint stuff. We are learning a trade that can make us millions of dollars in the future... because most people don't know how to do it." - Rob Adonis



What do we do in class?

Tech Theatre classes teach you how to do everything EXCEPT act. We build props & set, we create lighting cues & sound cues, we learn about costuming, hair & make-up.

"We play... we play a lot. Theatre class is like recess, but indoors & with air conditioning." - Rob Adonis



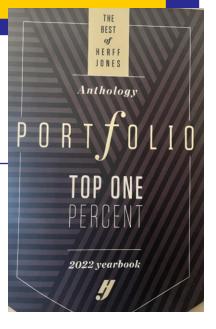
Yearbook

Ms. Michelle Chamberlain

Yearbook Journalism

Yearbook combines journalistic and creative writing with graphic design and photography with one goal in mind:

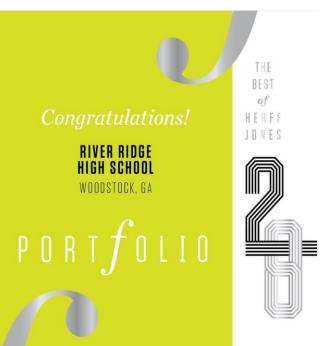
Creating the Ridge's award-winning FORTRESS Yearbook.





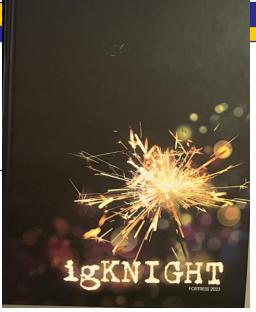






What do we do in yearbook?

- Attend and photograph games and events
- Get behind-the-scenes access
- Interview students and teachers
- Create page layouts using graphic design software
- Write stories and captions for your pages
- Be a part of River Ridge's history



2023 Yearbook



2022 Yearbook

Yearbook Benefits

- Real-world experience in writing, photography, and design
- Pursue your passion in one area or all three
- Student-led and project-driven class
- Leadership opportunities to become editors
- Considered an English academic elective
- GPA credit counts towards the HOPE scholarship
- Excellent on college applications
- Earn the yearbook cord for graduation

Yearbook Application

- Small class, so space is limited
- Applications are required











Journalism: Newspaper

The Shield

Ms. Heather Nelson

BASICS

- <u>4 year</u> program/pathway
- "Academic Elective" counts towards your
 HOPE GPA
- Work to publish the school's newspaper, The Shield, both online and in print

BENEFITS

- Independent work/work at your own pace
- Write about your interests
- Group work and collaboration skills
- · Exposure to different parts of the school
- · Social skills/interviewing and meeting new people
- Learn about the career of journalism, including investigating, sports reporting, photojournalism, and more

WHAT WE ARE LOOKING FOR



SPORTS

Attend Games Interview Coaches Access to the sidelines



SOCIAL MEDIA

Maintain the Instagram Spread the word



JOURNALISM

writing, and he involved at River Ridge.

Help us publish our school newspaper by joining

CURRENT EVENTS

Be aware of world news/ social and cultural events



LEADERSHIP

Edit the newspaper Help manage deadlines Build your resume for college Scan the QR code if you're <u>interested</u>, and tell your counselor to register you for Newspaper!





INTEREST SURVEY

CTAE, Fine Arts, and Yearbook/Journalism Pathway **Interest Survey**