



## Head of School

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## ABOUT WESTERN RESERVE ACADEMY

Founded in 1826 as a preparatory school for Western Reserve College, Western Reserve Academy is an independent coeducational boarding and day school, grades nine through post graduate. Western Reserve Academy is ranked number one best private high school, number one most diverse high school and number one best high school for STEM in Ohio and is among the country's best boarding schools. Our innovative college-preparatory curriculum features programs of distinction that prepare our students for an increasingly interconnected world.

## MISSION

Our faculty cultivate intellectual curiosity through a challenging college preparatory program; our students pursue a rigorous liberal arts curriculum and engage in opportunities beyond the classroom in arts, athletics and service, ensuring growth in mind, body and spirit. Western Reserve Academy's tight knit community instills individual and social responsibility and welcomes and respects diversity, while preparing students as citizens and global leaders.

## FACTS AT A GLANCE

- o Enrollment: 431
- o Boarders: 265
- o Day Students: 147
- o Boys: 240
- o Girls: 191
- o 51% of Students from Outside Ohio
- o Class of 2023: 138 students
- o Average Class Size: 12 students
- o Teaching Faculty: 68
- o Student-Teacher Ratio: 6:1
- o Faculty Living on Campus: 69%
- o Average Years of Teaching Experience: 16.5
- o Average Years Teaching at WRA: 8.6
- o Faculty with Advanced Degrees: 78%

## COVID RESPONSE

Members of the Class of 2023 were impacted by schedule changes due to COVID-19.

Western Reserve Academy moved to distance learning in March 2020 and students were issued standard grades for the remainder of the 2019-2020 school year.

We began the 2020-2021 school year in a hybrid model with most students attending class in person and some attending online synchronously. In 2021, WRA returned fully to in person learning.

## PROGRAM AND CALENDAR

Within our semester schedule students will take 6-8 courses per semester following an alternating daily schedule of five, 65-minute classes. Students will receive a final grade in their courses every semester, with traditional full-year courses receiving two semester grades annually. In addition, WRA has a diverse variety of half-year courses to support student interest such as *Contemporary Native American Voices*, *Digital Music Production*, *Ain't I a Woman?: Spotlighting Women of Color in American History*, *Applied Positive Psychology*, and more.

## COMMUNITY OUTREACH & GLOBAL ENGAGEMENT

Grade level themes focus on building internal community, serving broader community, recognizing environmental impact, and mentorship & outreach.

## GRADING SYSTEM

For the 2022-2023 academic year we will continue to use an A+ through F scale, and this will be noted on transcripts and marking period reports in the same manner. WRA does not include a GPA on the transcript, though one is available by request.

## REPORTING DISCIPLINE AND STUDENT CHANGES

When asked on college applications, students are expected to self-report discipline infractions if required by the college. If contacted by a college, WRA college counselors will only confirm the accuracy of details and outcome.

# CURRICULAR NOTES & UNIQUE OFFERINGS

**College Level (CL) Courses:** The pinnacle of academic height and rigor at WRA, CL courses replaced our Advanced Placement offerings beginning in 2017. The intellectual discourse in the CL classroom is sophisticated, nuanced and responsive to a changing world and student curiosity.

**Compass:** A self-directed, faculty-guided yearlong seminar that invites students to design and execute a project of significant intellectual and social resonance around the themes of Civic & Global Engagement, Science & Technology, Arts & Culture or Entrepreneurship. Through Compass projects, students have developed customizable LED light-up pillows, grown microgreens for the dining hall and created educational apps to help young students learn about cells.

**The Wang Innovation Center (WIC):** A 6,000-square-foot collaborative learning space, Western Reserve Academy's Wang Innovation Center is the next step in experiential learning, where WRA students can take ideas from concept to completion with state-of-the-art design and production equipment. The WIC is divided into three main creative spaces with specific functions — to imagine and plan, to prototype and to build. In the computer room students can conceive and design their project with a multitude of software used by architects, engineers and designers. In the fabrication area prototyping begins and ideas come to life using laser cutters, 3-D printers, molds, circuits and more. The final space, the workshop or "dirty" space, is where prototypes can be made into final products with a large-scale wood and metal shop.

**Integrated Studies & Design (ISD):** Beginning in the 2019-2020 school year WRA introduced this new multi-disciplinary department to hone student creativity, passion and skills for living healthy and happy lives. ISD also includes courses that invite every student to explore the abundant opportunities inside our Wang Innovation Center, including Learn to Make, Learn to Code and Digital Fabrication along with many other unique and interesting offerings. With an overall focus on critical thinking, entrepreneurship, communication and collaboration, the Integrated Studies & Design Department provides students a more enriching high school journey and valuable preparation for their lives after graduation.

**Scientific Research:** WRA is proud to offer students impressive opportunities for distinction within several areas of scientific research. In our Cancer Immunology I, III and III courses, students explore methods in biotechnology and techniques employed in most research institutions including prokaryotic and eukaryotic cell culture, nucleic acid technologies and protein purification as well as gene amplification and gene editing with CRISPR to assist in partnered research with the Cleveland Clinic on several cancer vaccines. In CL Pathobiology of Human Disease, students receive hands-on experience using human disease as a model. In CL Synthetic Biology I and II, students are immersed in the cutting-edge convergence of biology, engineering and invention. Two end goals of this course include the submission of student designs of a genetically engineered machine for publication in an online journal and the presentation of their work at a spring synthetic biology conference hosted by MIT.

## COLLEGE LEVEL & ADVANCED COURSES

### ENGLISH

CL English: Graphic Novels\*  
CL English: Writing Memory  
CL English: Power of Language  
CL English: Deep Dive — Toni Morrison  
CL English: Deep Dive — *Never Let Me Go*  
CL English: Matter of Class  
CL English: American Lit. & The Free Market Economy  
CL English: Shakespeare Comedies  
CL English: Shakespeare Tragedies

### FINE & PERFORMING ARTS

Advanced Acting  
Advanced Studio Art  
CL Music Theory  
Honors Dance

### SOCIAL SCIENCE

CL Art History \*  
CL Economics  
CL Philosophy  
CL US Government & Politics \*  
CL United States History & Government  
CL Frederick Douglass  
CL Civil Rights in America

### MATHEMATICS

CL Calculus C (Math 54)  
CL Calculus BC (Math 53)  
CL Calculus AB (Math 52)  
CL Multivariable Calculus  
CL Linear Algebra\*  
CL Calculus Based Probability and Statistics\*  
CL Statistics: Epidemiology  
CL Computer Science  
Accelerated Precalculus (Math 43)  
Honors Precalculus (Math 42)  
Honors Algebraic Reasoning 2 (Math 32)  
Honors Geometric Reasoning (Math 22)\*  
Honors Precalculus AB (Math 42)\*  
Accelerated Algebraic Concepts (Math 33) \*  
Accelerated Precalculus/Calculus A\*

### INTEGRATED STUDIES & DESIGN

Advanced Principles of Athletic Training  
CL Compass  
CL Computer Science  
CL Fab Academy

### SCIENCE

Advanced Astronomy\*  
Cancer Immunology  
Advanced Cancer Immunology  
CL Cancer Immunology  
CL Chemistry  
CL Microbiology  
CL Pathobiology of Human Disease\*  
CL Physics  
CL Quantum Mechanics\*  
CL Synthetic Biology  
Honors Chemistry  
Honors Physics

### MODERN & CLASSICAL LANGUAGES

CL French Language and Literature  
CL Advanced French Language & Literature  
CL Latin Literature  
CL Mandarin Chinese  
CL Spanish - Spanish Literature  
CL Spanish - Latin American Literature  
Honors French III  
Honors Latin III  
Honors Spanish II  
Honors Spanish III

\*Not offered in the 2022-2023 school year.

# GRADUATION REQUIREMENTS

WRA graduates must complete a four year program of study. Four year students earn a minimum of 27 credits, while meeting specific departmental requirements. Transfer students take a full course load earning a minimum of 21 credits and must meet specific departmental requirements.

**ENGLISH:** 4 credits, successful completion of the Junior Writing Exam required.

**MATHEMATICS:** 4 credits, at least one credit at the 30 level or higher.

**MODERN & CLASSICAL LANGUAGES:** 2-3 credits, level 3 required. Students with language experience take placement test for entry level and credits earned.

**FINE & PERFORMING ARTS:** 2 credits.

**SCIENCE:** 3 credits, Biology, Chemistry and Physics required.

**SOCIAL SCIENCE:** 3 credits, US History and Government required.

**INTEGRATED STUDIES & DESIGN:** 2 credits, Learn to Live Well, Learn to Make and Learn to College required.

**PHYSICAL EDUCATION:** Athletic participation or conditioning each academic year required.

## 2021 & 2022 COLLEGE ADMISSIONS

*This selection of schools indicates the wide variety of colleges our students have been admitted to. Bold indicates where students have matriculated.*

- |  |   |
|--|---|
| Allegheny College                          | Lehigh University                           |
| American University                        | Loyola University Chicago                   |
| <b>Bates College</b>                       | University of Maryland                      |
| <b>Belmont University</b>                  | Miami University                            |
| <b>Boston College</b>                      | <b>University of Michigan</b>               |
| Boston University                          | <b>Middlebury College</b>                   |
| <b>Bowdoin College</b>                     | <b>Morehouse College</b>                    |
| <b>Brown University</b>                    | <b>New York University</b>                  |
| Bryn Mawr College                          | <b>Northwestern University</b>              |
| Butler University                          | <b>Oberlin College</b>                      |
| <b>UCLA</b>                                | <b>Ohio State University</b>                |
| <b>UC San Diego</b>                        | <b>Ohio Wesleyan University</b>             |
| <b>Carnegie Mellon University</b>          | Penn State University                       |
| <b>Case Western Reserve University</b>     | <b>Pepperdine University</b>                |
| <b>College of Charleston</b>               | Pitzer College                              |
| <b>University of Chicago</b>               | <b>Providence College</b>                   |
| <b>University of Cincinnati</b>            | <b>Purdue University</b>                    |
| Clemson University                         | Reed College                                |
| <b>Cleveland Institute of Art</b>          | <b>Rhodes College</b>                       |
| <b>Colgate University</b>                  | University of Richmond                      |
| Columbia University                        | <b>Savannah College of Art &amp; Design</b> |
| Connecticut College                        | Santa Clara University                      |
| <b>University of Dayton</b>                | <b>University of Southern California</b>    |
| <b>Denison University</b>                  | <b>University of St Andrews</b>             |
| <b>University of Denver</b>                | <b>Stanford University</b>                  |
| <b>Dickinson College</b>                   | <b>Swarthmore College</b>                   |
| <b>Elon University</b>                     | <b>University of Toronto</b>                |
| Emerson College                            | <b>Tufts University</b>                     |
| Emory University                           | <b>Tulane University</b>                    |
| Fordham University                         | Villanova University                        |
| <b>George Washington University</b>        | University of Virginia                      |
| <b>Georgetown University</b>               | <b>Wake Forest University</b>               |
| <b>Harvard University</b>                  | <b>Washington University in St. Louis</b>   |
| <b>Haverford College</b>                   | <b>Wesleyan University</b>                  |
| <b>Hobart &amp; William Smith Colleges</b> | <b>College of William &amp; Mary</b>        |
| <b>Howard University</b>                   | <b>Xavier University</b>                    |
| <b>Indiana University</b>                  | Yale University                             |
| Ithaca College                             |   |
| <b>Johns Hopkins University</b>            |   |
| <b>Kenyon College</b>                      |   |

## STATISTICAL PROFILE

### TESTING AVERAGES FOR THE WRA CLASS OF 2022

<b>MEDIAN ACT</b>	<b>27</b>
<b>MEDIAN SAT</b>	<b>1332</b>

**WRA Class of 2022: 126 Students**  
 74 students took the ACT  
 63 students took the SAT  
 39% of students applied test optional

### NATIONAL TESTING AVERAGES FOR THE CLASS OF 2022

<b>MEDIAN ACT</b>	<b>20.6</b>
<b>MEDIAN SAT</b>	<b>1050</b>



