

2021-2022 HIGH SCHOOL PROFILE

The Dayton Regional STEM School

Administration

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The Five STEM Qualities

In addition to our regular instruction, we teach, practice, model, and assess the following "Five Important Qualities" at The Dayton Regional STEM School:

PERSISTENCE
INQUIRY
COMMUNICATION
CREATIVITY
COLLABORATION

Connect with us!

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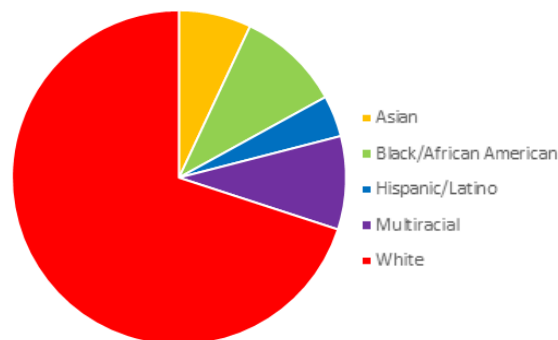
Email:
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School Code: 365-157

The Real World Starts Here...

The Dayton Regional STEM School (DRSS) is one of seven independent public STEM (Science, Technology, Engineering, and Math) schools across Ohio. The School opened in August 2009 with its first class of 9th grade students from across Clark, Greene, and Montgomery counties in southwestern Ohio. It currently serves 7 students in grades 6-12 (364 high school) from 33 different school districts in seven counties. Students participate in inquiry and project-based instruction that integrates the traditional STEM content areas with social studies, language arts, fine arts, and wellness and fitness-- the School's primary foreign language offering is Mandarin Chinese. The curriculum is directly connected to the real world of work being done by the scientists, engineers, strategists, planners, manufacturers, innovators, and entrepreneurs throughout the Dayton region.

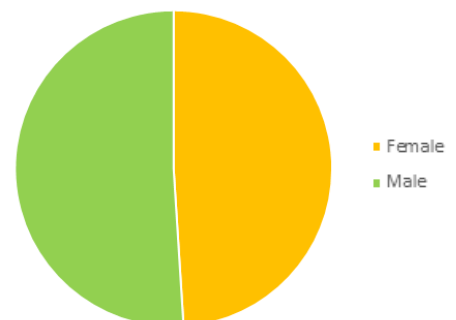
Facts for the Class of 2022

DRSS is a public, four-year comprehensive high school.



The Dayton Regional STEM School has an ethnically diverse group: 7% Asian, 10% Black or African American, 4% Hispanic/Latino, 9% Multiracial, and 70% White, which is reflective of the surrounding region.

Enrollment consists of 374 high school students from 30 different districts in seven counties. Our students are 51% male, 49% female.



Faculty: The faculty consists of 41 teachers, 90% hold advanced degrees, including one with National Board certification and three staff members hold a Ph.D.

College Credit Plus (CC+): Students have the opportunity to take courses offered by local universities and colleges on-site at DRSS and earn college credit in addition to high school credit. These courses include: Chinese 1, 2, and 3; Calculus, English, Psychology, and Sociology. Students in grades 11 and 12 may also take courses offered at local colleges/universities. Credit is awarded and grades are included in the final GPA.

STEMmersion: Each school year, students spend a 10-day period immersed in a meaningful, authentic experience focused on one project. These STEMmersion courses are driven by student interest and are designed to foster deep understanding of content and a love of learning.

Graduation Requirements

- Math: 4 credits
- Laboratory Sciences: 4 credits
- Language Arts: 4 credits
- Social Studies: 3 credits
- Foreign Language: 2 credits
- Art: 1 credit
- Health: .5 credit
- Physical Education: .5 credit
- Electives: 4.5 credits
- Internship: .5 credit

24
Credits

*30 hours of community service required during senior year

Athletic and Extracurricular Activities: The Dayton Regional STEM School does not have sports teams--students can play sports for their home school districts. DRSS offers numerous extracurricular activities including: Science Olympiad, Robotics, Destination Imagination, and Cyber Patriot teams; science fair, National Honor Society, Student Government, Student Ambassadors, community service opportunities, and a variety of clubs.

College and Career Readiness: Students job shadow once in 9th grade and once in 10th grade and attend annual Career Fairs. They have also made at least three school-organized college visits. Students must complete an Internship Experience (minimum of 72 hours) in order to graduate.

Student Portfolios: Each year, students compile a Digital Portfolio, which chronicles their academic growth over the course of the year. The students present projects or experiences which demonstrate a learning and/or growth related to the School's Five Important Qualities: Persistence, Inquiry, Communication, Creativity, and Collaboration.

Grade Point Range: This is calculated at the end of their junior year, the DRSS senior class is 56% 3.5 or above, 24% 3.0-3.4, 15% 2.5-2.9, 5% 2.0-2.4

The Dayton Regional STEM School Grading Scale

A 100-90 B 89-80 C 79-70 F 69 and below

*The Dayton Regional STEM School does not report class rankings.

Academics- What does a STEM education look like?

Instruction at The Dayton Regional STEM School is inquiry and project-based, filled with many hands-on and group/team experiences. There is a strong link and connection to the real world of work via the School's many partners, who are the "movers and "shakers" across the Dayton region, and are involved in the School on a regular basis. While freshmen and sophomores, students participate in several "fully integrated" units, exploring a single driving question/theme across all of their core classes. Evidence of student work is found throughout the School, as public exhibition of student work is one of the School's tenets. Additionally, partners are invited to help evaluate student work, judge debates, and interact with students at twice a year Public Exhibitions. Below is an overview of the college-preparatory classes offered. A more detailed description of each course can be found in the *Dayton Regional STEM School Course Descriptions*. College classes are offered through partnerships with Wright State University and Sinclair Community College.

9th Grade Courses:

Language Arts CP
U.S. History
Algebra 1 CP
Geometry
Honors Geometry
Engineering Science
Principles of Computer Science
Honors Engineering Science
Art
Chinese I

10th Grade Courses:

Language Arts 10 CP
World History
Financial Literacy
Geometry
Algebra II
Biology
Honors Biology
Wellness and Fitness
Chinese II
CC+ Chinese I -- CHI 1010/1020

Electives:

Principles of Engineering
Environmental Sustainability
Architecture and Design
Experiential Learning
CC+ Psychology -- PSY 1100
CC+ Sociology -- SOC 1101

11th Grade Courses:

Algebra II
Pre-Calculus
Honors Pre-Calculus
Chemistry
Technical Reading and Writing
Government
Economics
CC+ Chinese II --CHI 2010/2020
Chinese III

12th Grade Courses:

Pre-Calculus
AP Calculus
Art and Science of Materials
Anatomy & Physiology
Physics
English 12 CP
CC+ English --English 1100
Chinese III or IV
Statistics

Digital Electronics
Computer Hardware
Networking & Security
Game Design I, II, III
Computer Programming
Optional Online Electives in various content areas