

# oklahoma school of science and math

**Oklahoma School of Science and Math (OSSM)** is a prestigious public high school located in Oklahoma City, dedicated to providing exceptional education in the fields of science, technology, engineering, and mathematics (STEM). Founded in 1999, OSSM has earned a reputation for its rigorous academic programs and a commitment to fostering a passion for scientific inquiry among its students. This article explores the unique features of OSSM, its academic offerings, extracurricular activities, and the impact it has on the future of its students.

## Overview of Oklahoma School of Science and Math

OSSM was established to address the growing need for advanced education in STEM fields for high-achieving high school students in Oklahoma. The school serves students in grades 11 and 12, offering a challenging curriculum that prepares them for college and careers in STEM disciplines. OSSM is a public school that does not charge tuition, making it accessible to students from diverse backgrounds across the state.

## Mission and Vision

The mission of OSSM is to provide a rigorous educational experience that fosters a deep understanding of science and mathematics while developing critical thinking and problem-solving skills. The school's vision emphasizes:

- Academic Excellence: Striving to maintain high standards in education.
- Innovation: Encouraging creativity and innovation in scientific pursuits.
- Community Engagement: Building connections with the local and global community to enhance learning opportunities.

## Academic Programs at OSSM

OSSM offers a unique curriculum that blends advanced coursework with hands-on learning experiences. The academic programs are designed to challenge students and encourage them to think critically about the world around them.

## Core Curriculum

The core curriculum at OSSM includes:

1. **Mathematics:** Courses range from Algebra and Geometry to Calculus and Statistics, ensuring students develop a strong foundation in mathematical concepts.
2. **Science:** Students study a variety of scientific disciplines, including Biology, Chemistry, Physics, and Environmental Science, often through laboratory-based learning.
3. **Computer Science:** The curriculum includes programming, data structures, and algorithms, preparing students for the digital age.
4. **English Language Arts:** Emphasizing critical reading and writing skills, students engage with diverse texts and explore complex themes.

## **Advanced Placement (AP) and Dual Enrollment**

In addition to the core curriculum, OSSM offers Advanced Placement (AP) courses that allow students to earn college credit while still in high school. The AP courses available include:

- AP Calculus
- AP Chemistry
- AP Physics
- AP Computer Science

Students also have opportunities for dual enrollment with local colleges and universities, allowing them to experience college-level coursework and earn credits that transfer to their future academic institutions.

## **Extracurricular Activities**

Beyond academics, OSSM encourages students to engage in various extracurricular activities that promote personal growth, leadership, and teamwork. These activities complement the rigorous academic environment and help students develop a well-rounded skill set.

## **Clubs and Organizations**

OSSM provides a variety of clubs and organizations that cater to different interests, including:

- **Science Club:** Students participate in experiments, competitions, and science fairs.
- **Math Club:** A hub for students passionate about mathematics, focusing on problem-solving and competitions.
- **Robotics Team:** Students collaborate on building and programming robots for competitions.
- **Student Government:** Encouraging leadership, this organization allows

students to voice their opinions and lead initiatives within the school.

## **Research Opportunities**

OSSM places a strong emphasis on research, providing students with opportunities to engage in meaningful scientific inquiry. Students can work on independent research projects or collaborate with faculty members on ongoing research. This hands-on experience is invaluable for those considering careers in science and engineering.

## **College and Career Preparation**

One of the primary goals of OSSM is to prepare students for success in college and their future careers. The school employs various strategies to ensure students are ready for the challenges of higher education.

## **Counseling and Guidance**

OSSM provides dedicated college counseling services that assist students in navigating the college application process. This includes:

- College Tours: Organized visits to various colleges and universities.
- Application Workshops: Guidance on writing personal statements and preparing applications.
- Scholarship Information: Support in identifying and applying for scholarships to fund higher education.

## **Alumni Success**

The success of OSSM graduates is a testament to the quality of education they receive. Many alumni go on to attend prestigious universities and pursue careers in STEM fields. Some notable alumni include:

- Engineers and scientists working at top technology companies.
- Medical professionals making strides in healthcare.
- Educators and researchers contributing to scientific advancements.

## **Conclusion**

The **Oklahoma School of Science and Math** stands out as a beacon of excellence in STEM education. With its rigorous academic programs, a wide array of

extracurricular activities, and a strong focus on college and career readiness, OSSM prepares students not only for academic success but for impactful careers in science and technology. The school's commitment to fostering a love for learning and scientific inquiry equips its students with the skills they need to thrive in an ever-changing world. For students with a passion for science and mathematics, OSSM offers an unparalleled opportunity to grow, learn, and excel.

## **Frequently Asked Questions**

### **What is the Oklahoma School of Science and Math (OSSM)?**

OSSM is a public high school in Oklahoma that focuses on science, technology, engineering, and mathematics (STEM) education for academically gifted students.

### **How do students apply to OSSM?**

Students can apply to OSSM by completing an online application, providing transcripts, teacher recommendations, and taking an entrance exam.

### **What grades does OSSM serve?**

OSSM serves 11th and 12th grade students who are interested in pursuing advanced studies in STEM fields.

### **What unique programs does OSSM offer?**

OSSM offers various programs, including advanced coursework in mathematics and science, research opportunities, and partnerships with local universities for dual credit.

### **Is OSSM tuition-free?**

Yes, OSSM is a public school and tuition-free for Oklahoma residents, although students may need to cover some costs for supplies and materials.

### **What extracurricular activities are available at OSSM?**

OSSM offers a range of extracurricular activities, including science clubs, math competitions, robotics teams, and various academic and cultural clubs.

## **How does OSSM prepare students for college?**

OSSM prepares students for college through rigorous academic programs, research projects, college counseling, and opportunities for advanced placement courses.

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