Admissions Procedure

Admission to the OSSM Regional Center is a highly competitive process, initiated by written application. In addition to the student’s high interest in science and mathematics, the admission committee examines several other criteria. These include standardized test scores, previous course work and grades, academic recommendations, scientific interest and aptitude, self-discipline, personal maturity and overall potential as an OSSM Regional Center Student.

Applications are available from local high school counselors, or OSSM at SOTC. Call 580-224-8263 for further information or an application packet. Or contact dfisher@sotc.edu via e-mail.

Please return all completed applications to:
OSSM Ardmore Regional Center
Southern Oklahoma Technology Center
ATTN: Dianna Fisher
2610 Sam Noble Parkway
Ardmore, OK 73401

Deadlines  
2014-2015 School Year
Applications Accepted: Friday, April 4, 2014
Notification of Semifinalists: Week of April 7, 2014
Semifinalist Interviews: Week of April 14, 2014
Notification of Finalists: Week of April 21, 2014
Graduation of Class of 2014 and Recognition of Class of 2015: May 13, 2014

The Southern Oklahoma Technology Center and OSSM do not discriminate against any individual on the basis of gender, race, color, national origin, age or qualified disability in the operation of its educational programs, activities, recruitment, admissions, or employment practices.

www.sotc.edu
History of OSSM

Oklahoma Senate Bill I created the Oklahoma School of Science and Mathematics (OSSM) Regional Centers during the 1997 legislative session. Senate Bill I provides an educational outreach program for OSSM by developing regional sites for rural students who are talented in science and mathematics. The Oklahoma School of Science and Mathematics governs the program.

The OSSM Regional Center at Ardmore, OK is a collaborative effort among the following: OSSM, high schools within the Southern Oklahoma Technology Center districts and the Southern Oklahoma Technology Center (SOTC). The purposes of the OSSM Regional Center are:

- To provide advanced educational opportunities for rural high school students talented in math and science who attend one of SOTC's sending high schools.
- To allow participating students to maintain their local high school affiliation and extra-curricular participation while living at home.

Curriculum

Physics:

Students take General Physics during their first semester (Fall) and Mechanics during their second semester (Spring).

General Physics is an algebra/trigonometry-based course. The curriculum includes motion in one dimension, Newton's laws, work and energy, momentum, rotation of rigid bodies, fluids, electricity and magnetism, wave motion and optics.

Mechanics is a calculus-based course typical of what engineering majors take during their first year at a university.

The goal is to prepare students for AP Physics C Mechanics exam. The emphasis is on concepts and problem-solving skills rather than rote memorization of formulas. We intend for the students to get AP credit for Physics I and enter the university in Physics II.

Calculus:

The course provides a multi-representational study of basic calculus concepts using geometric, analytic, numeric and verbal methods. The course is taught at the collegiate level and it is not the intent of the course to be a preparatory course for university-level calculus. It is our full intent for students to receive AP credit for Calculus I and Calculus II and enter the university in Calculus III or an equivalent course during their first semester in college.

First Semester:
Section 1: Algebra/Trigonometry Review
Section 2: Functions, Limits, and Continuity
Section 3: Introduction to the Derivative and Rates of Change
Section 4: Applications of the Derivative
Section 5: Introduction to the Integral and Areas under a Curve
Section 6: Transcendental Functions

Second Semester:
Section 1: Volumes of Solids of Revolution
Section 2: Polar/Parametric/Vector
Section 3: Techniques of Integration
Section 4: Infinite Series

Facilities

- Fully-equipped physics lab.
- Excellent set of physics demonstration equipment.
- Computer lab with advanced physics and math software.