



St. Mary's Ryken

A College Preparatory Catholic High School Located in the Heart of Leonardtown, Maryland

Scholars Program

**FEATURING CURRICULUM FROM THE NATIONALLY RECOGNIZED PROGRAM,
PROJECT LEAD THE WAY**

The St. Mary's Ryken Scholars Program offers accelerated curriculum concentrations to our students who want a more rigorous and advanced course of study.

The SMR Scholars Program offers STEM tracks in:

- Engineering
- Computer Science
- Biomedical Science

The SMR Scholars Program offers the following Humanities tracks:

- Global and International Studies
- Humanities
- Visual Arts
- Performing Arts

FOR INFORMATION AND QUESTIONS, PLEASE CONTACT:

Mr. Brad Chamberlain,
Dean of Academics:
brad.chamberlain@smrhs.org
or 301-373-4188



PROJECT LEAD THE WAY

The STEM curriculum uses Project Lead the Way (PLTW), the nation's leading provider of STEM programs. PLTW's success in preparing students to succeed has been recognized by colleges and universities.

BENEFITS OF THE SMR SCHOLARS PROGRAM INCLUDE:

- Participation in a selective academic program with specialty tracks
- Flexible scheduling to allow for electives of choice
- Exclusive field trips
- Capstone senior project with presentations to area professionals with consultation and feedback
- Distinguished addition for college applications
- Recognition at graduation and Scholars Program diploma

SCHOLARS PROGRAM Tracks



SELECTION PROCESS

To be selected for the Scholars Program, the Admissions Committee and Dean of Academics will evaluate the following criteria from the student's admissions application:

- Student's high school placement test results
- Grade-point average
- Interview with the Dean of Academics may also be required

STEM ENGINEERING EMPHASIS

PLTW REQUIREMENTS

- Introduction to Engineering
- Principles of Engineering
- Engineering Specialization Course (Aviation)
- Senior Capstone

MATH AND SCIENCE REQUIREMENTS

- Honors level prerequisite Math/Science courses
- AP Calculus
- AP Chemistry and/or AP Statistics
- AP Physics C
- MATLAB (senior year)

STEM COMPUTER SCIENCE EMPHASIS

PLTW REQUIREMENTS

- Introduction to Computer Science
- AP Computer Science Principles
- AP Computer Science
- Cybersecurity

OTHER REQUIREMENTS

- Intro to Programming and/or Web Development
- Honors level prerequisite Math/Science courses
- AP Calculus
- AP Statistics
- AP Science (Chemistry, Biology, Physics, or Environmental)
- *Digital Knights Competitive Programming Team*

STEM BIOMEDICAL EMPHASIS

PLTW REQUIREMENTS

- Principles of Biomedical Science
- Human Body Systems
- Medical Interventions
- Capstone Biomedical Innovation

MATH AND SCIENCE REQUIREMENTS

- Honors level prerequisite Math/Science courses
- Honors Physics
- AP Biology
- AP Calculus
- AP Chemistry or AP Statistics

GLOBAL AND INTERNATIONAL STUDIES

- AP Human Geography
- AP World History
- AP U.S. History
- AP U.S. Government & Politics
- AP Macroeconomics
- AP Microeconomics
- World Language (through a fourth/AP year with two years of a second World Language)
- AP Capstone

HUMANITIES

- AP Language & Composition
- AP Literature & Composition
- AP World History
- AP U.S. History
- AP Psychology
- AP Art History
- World Language (four consecutive years)
- AP Capstone

VISUAL ARTS

REQUIRED COURSES

- Introduction to Visual Art
- Drawing
- Painting
- Studio I
- AP Art History
- AP Art 2D
- AP Art Drawing & Painting
- Honors Intro to Human Anatomy
- AP Language & Composition
- Art Electives

OTHER REQUIREMENTS

- National Fine Arts Honor Society
- Summer Portfolio Development

PERFORMING ARTS

REQUIRED COURSES

- Performance Group (four years)
- Music/Theatre/Art Appreciation
- AP Language & Composition
- AP English Literature
- Fine Arts Electives

ADDITIONAL REQUIREMENTS FOR DANCE

- Health and Nutrition
- Honors Intro to Human Anatomy

ADDITIONAL REQUIREMENTS FOR THEATRE

- Stage Guild
- Technical Theatre
- Two productions per year

ADDITIONAL REQUIREMENTS FOR MUSIC

- AP Music Theory
- Tri-M Music Honors Society
- WATMC Honors Band/Orchestra