

## Reclaiming the Joy of Medicine: Finding Purpose, Fulfillment, and Happiness in Today's Medical Industry

The application window for the 2023 Ross Mathematics Program is now open.

Begin your application by visiting <https://apply.rossprogram.org/>

For full consideration, completed applications must be submitted before the end of March. The Ross Admissions Committee will begin reading applications on April 1, and admission decisions will be made later that month.

The 2023 Ross/USA Program will have in-person, six-week, residential sessions at two locations:

at Otterbein University in Columbus; Ohio:

June 11 (Sun) through July 21, 2023.

at Rose-Hulman Institute of Technology in Terre Haute, Indiana:

June 18 (Sun) through July 28, 2023.

In addition, Renascentia Hall International is expected to run Ross/Asia for a five-week in-person residential program at the University of the Philippines Diliman in Manila. Both Ross/USA and Ross/Asia have a common application that will be posted here on January 2, 2023.

The hope is to accommodate 50 first-year students at each site.

### Introduction

The Ross Program is an intensive summer experience designed to encourage motivated pre-college students to explore mathematics. During those weeks, students are immersed in a world of mathematical discovery.

Dr. Arnold Ross founded this multi-level program at Notre Dame University in 1957. Its growth was then spurred by the launch of the Sputnik satellite and the subsequent surge of interest in science education. Arnold Ross's Program has run every summer since then, associated mostly with Ohio State University from 1964 through 2018. In 2019, the Program moved to Ohio Dominican University. In 2020 and 2021 the Ross Program was entirely online, but in-person sessions resumed in 2022 at Ohio Dominican University and Rose-Hulman Institute of Technology.

Our central goal has always been to instruct bright young students in the art of mathematical thinking and to inspire them to discover for themselves that abstract ideas are valuable and important. First year participants take the basic course in number theory. For most students, this is the first time they are asked to consider entirely new questions, to develop methods that they have not seen before, and to justify every answer.

The value of a mathematics education lies not only in obtaining proficiency in

## P

computational tasks, but also in building a foundation for critical thinking. Students who have never asked why things work the way they do are not prepared to lead the way to future scientific innovation. It is precisely this independence of thought and questioning attitude that the Ross Program strives to nurture.

### Eligibility

Ambitious pre-college students with interests in mathematics and science are invited to apply. First-year students range in age from 15 to 18 years old. (In rare cases, younger or older students are accepted.) Admission decisions are based on several criteria, including: school transcripts; teacher recommendations; essays concerning the applicant's interests and goals; and the applicant's work on some challenging math problems.

Undergraduate math majors and math graduate students are invited to apply to be a Ross Counselor.

NOTE. The Ross Program cannot accommodate students who must arrive more than two days after the start of classes.

### Costs and Financial Aid

Each Ross student is asked to pay a program fee of \$6000. Those funds are used to pay for six weeks of room and board, to hire instructors and counselors, and to cover incidental costs of developing and running math courses.

NOTE: Financial aid is certainly available. Accepted applicants are encouraged to apply for aid if their families have some financial need. We hope to provide enough support to enable every accepted applicant to attend this great Program.

### To Apply

The Ross Program application is posted on the to apply page. For full consideration, completed applications must be submitted by March 31. The Ross Admissions Committee begins reading the application on April 1.

Acceptance decisions will be made later in April, and the process will be completed by May.

The Ross Program admits students of any race, color, gender, and national or ethnic origin.

#### Ross Program Support

The Ross Program is supported in several ways. Partners in this mathematical enterprise include:

#### Related Programs

Some other excellent summer mathematics programs are listed on the AMS mathcamps webpage. The two programs closely related to Ross are PROMYS at Boston University, and the Honors Summer Math Camp at Texas State University.

#### Questions?

Please see our Frequently Asked Questions page for more information. You are also welcome to email us at [ross@rossprogram.org](mailto:ross@rossprogram.org).

## Reference

[Handbook of Arts-Based Research](#)

[Social Skills Teaching for Individuals with Autism: Integrating Research into Practice \(Springer Series on Child and Family Studies\)](#)