



## WHAT STUDENTS SAY

- “I liked the sense of competition, yet still have so much teamwork and friendliness as well as helpful TAs and Teachers.”
- “The M3C summer program allowed for me to meet new people and collaborate with them. I enjoyed the activities and math problems very much and it allowed for me to be better in math.”

## WHAT PARENTS SAY

- “Very educational and creative.”
- “What an excellent program. Thank you for an opportunity of a lifetime.”
- “The exposure has been invaluable. Thank you. It will have a lifelong impact.”
- “My daughter was always excited to come home and tell me about her day at this program. I hope it could continue.”



**MERCY COLLEGE**  
555 Broadway  
Dobbs Ferry, New York 10522



### PROGRAM DIRECTOR

Dr. Nagaraj Rao  
914.674.7593  
Fax 914.674.7518  
nrao@mercy.edu

### CO-DIRECTOR

Dr. Charles Li  
914.674.7585  
cli2@mercy.edu

### SCHOOL OF LIBERAL ARTS

Department of Mathematics and Computer Sciences  
914.674.7536

Mercy College is a private, non profit institution, offering more than 90 undergraduate and graduate programs taught by Fulbright scholars, authors and leaders in their field.

The groundbreaking PACT (Personalized Achievement Contract) program is an example of our commitment to student success. Students are provided professional PACT mentors who are focused on their academic achievement, career readiness and placement.

# MATHEMATICAL MODELING

A YOUNG SCHOLARS PROGRAM

## SUMMER SESSION

JULY 11 — AUG 6, 2022  
M - F: 10 a.m. - 4 p.m.

**Project Presentations:**  
Saturday, August 6

MERCY COLLEGE

# MATHEMATICAL MODELING AT MERCY COLLEGE (M<sup>3</sup>C)

Mathematical Modeling at Mercy College (M<sup>3</sup>C) is a Young Scholars Program originated in 1994 with a grant from the National Science Foundation. It is now funded by the U.S. Dept. of Education under MSEIP (Minority Science and Engineering Improvement Program). Real-world problems from the physical, natural and environmental sciences will be used to introduce the young scholars to the mathematical modeling process. Classroom instruction and hands-on activities in the computer and science laboratories will be supplemented by weekly visits to research centers. The Young Scholars will use several software packages and develop completed project reports. Students will be exposed to research methodologies, to career options in mathematics and science and to the ethical issues facing today's scientific community. Participants will present their projects to their peers and parents at the banquet. Women and minorities are encouraged to apply. Students who like math and sciences with a B or better grade average are invited to apply.

## OBJECTIVE

The goal of M<sup>3</sup>C is to attract capable students — especially women and minorities — into mathematics and science by engaging them as participants in a series of activities designed to highlight mathematics and science as the exciting, challenging, productive and rewarding fields of study that they are.

## COST

FREE. In addition each student receives \$150 per week for a total of \$600.

## LOCATION

Mercy College, Dobbs Ferry Campus.

# APPLY TODAY FOR MATHEMATICAL MODELING

## DEADLINE

Application deadline: June 1, 2022

<http://www.mercy.edu/m3c>

## QUALIFIERS

- ▶ Completed application
- ▶ Letter of commitment from parent or guardian
- ▶ Must complete algebra & geometry
- ▶ Must currently be in grade 9, 10 or 11

## BENEFITS

- ▶ Each participant will receive a stipend of \$150/week
- ▶ Each student will receive a graphing calculator
- ▶ There will be a project presentation banquet at the end of the program
- ▶ Lots of fun exploring math in an informal environment with peers

## DAILY SCHEDULE

Time: M - F 10:00 a.m. - 4:00 p.m.

Project presentations Saturday, August 6

Activities include conducting experiments, writing reports, present projects, watch videos, conduct panel discussions, jeopardy, and debates. Have fun and make new friendships.

## SPONSORS

- ▶ Mercy College
- ▶ U.S. Department of Education

## PRIOR RESEARCH CENTERS SUPPORT

- ▶ Philips Laboratories
- ▶ IBM
- ▶ Cold Spring Harbor Laboratory
- ▶ Regeneron Pharmaceuticals

## CAREER EXPLORATION ACTIVITIES

- ▶ Field trips to research centers will bring the young scholars in contact with scientists and to the environments that they work in.
- ▶ Speakers will be invited to address the participants on career opportunities and ethical issues in science and mathematics.
- ▶ Specialists will be brought in to educate the young scholars on college preparation.

**Mathematical Modeling at Mercy College is supported by a grant from USDOE under MSEIP (Minority Science and Engineering Improvement Program).**