

IRISING RESEARCHERS

Clinical Topics In Healthcare

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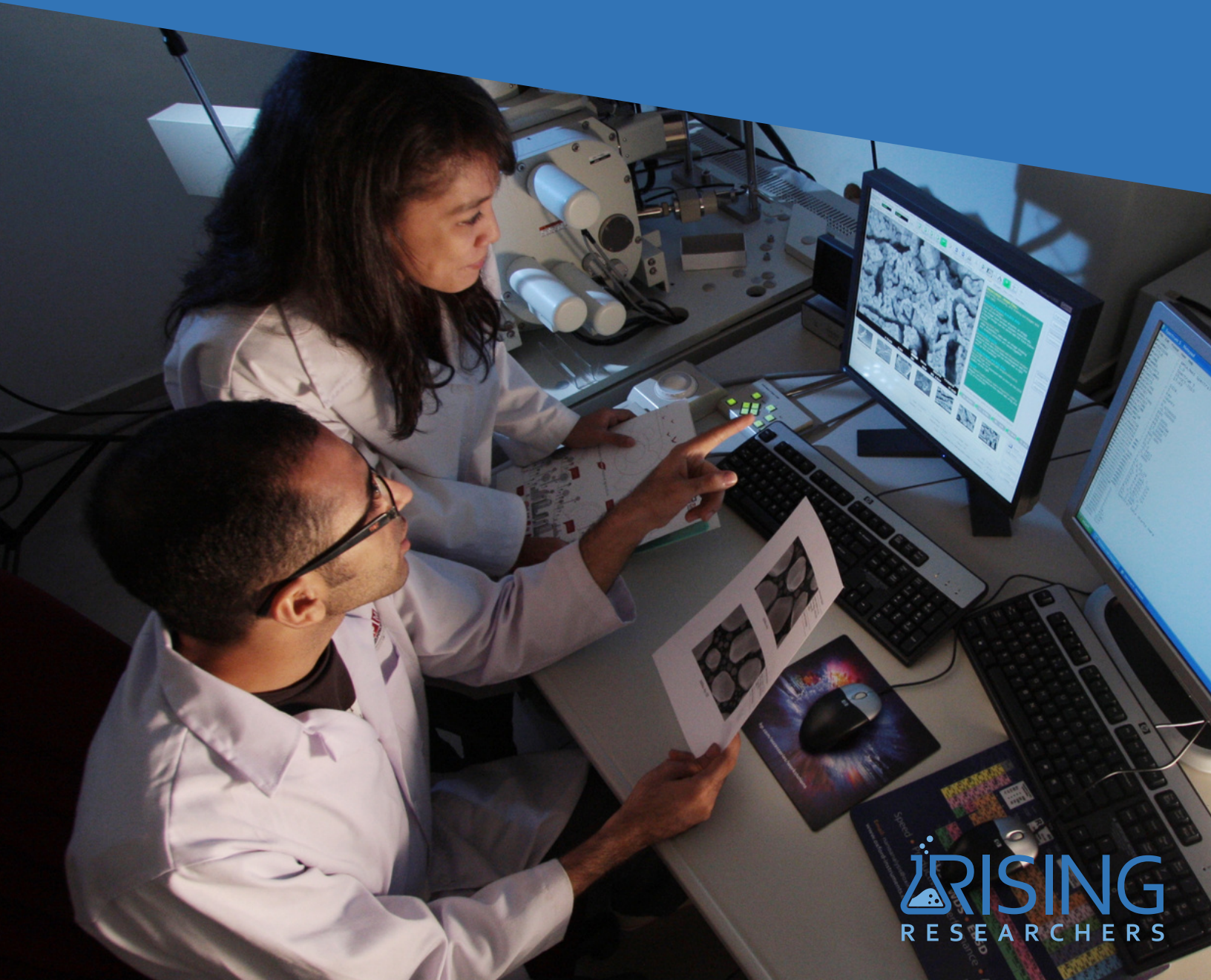


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WHAT IS RISING RESEARCHERS?

Rising Researchers is a research experience like no other. This research program has clear deliverables that provide our students with an advantage in college admissions. The research experience is highly customizable since the work with the research mentor is one-on-one.

Our mentors are MDs, DOs, PhDs, or Medical Students themselves. They have many publications to their name, presented at numerous conferences, and know exactly what it takes to get accepted to a competitive BS/MD Program, Pre-med Program, or Medical School.

The core concepts that will be learned include project design, manuscript writing, data analysis, and an introduction to medicine. Rising Researchers provides students at all levels the opportunity to sharpen their research skills and stand out in a competitive college and medical school application cohort.

The 10-week curriculum allows for flexibility, but ensures the efficient completion of deliverables. Students will virtually meet with their mentor once a week for a lesson (approximately 60-75 minutes), accompanied by assignments to be completed offline. Throughout the sessions, students will develop their own clinically-based project with their mentors, review existing literature, and practice analyzing data. Manuscript writing and poster creation will be continually expanded upon in each lesson.

For more information, please visit <https://risingresearchers.com>.

COURSE OBJECTIVES

- Explore a clinical topic of interest and career opportunities in the field of medicine
- Understand the development of a unique research question, project design, research methodologies, and data analysis
- Investigation of existing literature to build references
- Exploration of healthcare pathways and issues in healthcare
- Presentation of initial research design as a poster presentation
- Hone public speaking and presentation skills while preparing for your poster presentation
- Creation of initial research draft template for an article submission for publication

COURSE GOALS

- Describe and demonstrate the ability to use the scientific method
- Develop fundamental knowledge of biological or clinical research and its applications to medicine
- Independently develop and manage research projects
- Demonstrate competency in utilizing research tools and interpreting data to support the research question
- Demonstrate competency in drawing reasonable conclusions based of research findings
- Demonstrate ability to communicate research and results
- Demonstrate ability to communicate medical career expectations and common healthcare issues

COURSE MATERIALS

All the required articles, videos, and materials will be provided to the student.

COURSE REQUIREMENTS

This course has no course prerequisites and is open to both high school and college students. The one-on-one nature of this program allows the research mentor to customize the learning experience for each student.

In order to be successful in this program, students must be committed to attending the virtual meetings, avoid canceling/rescheduling meetings last-minute, show up on time, learn, fully participate in discussions, readings, assignments, and be respectful.

ASSESSMENTS AND ASSIGNMENTS

As a 10-session course, each class will be a one-on-one session scheduled once a week with your research mentor. The sessions will be scheduled based on your availability. While the course is flexible, it is expected that the course is to be completed within a 4 month period.

The following guidelines exist:

- A minimum of 12-hours is needed for cancellations and rescheduling classes
- If a student fails to show up for a scheduled class or cancels last minute (less than 12 hours notice) the class is forfeited and a make-up class will not be scheduled

ASSESSMENTS AND ASSIGNMENTS

Course Format

Each session will be a 60-75-minute meeting held virtually via Zoom. The meeting links will be sent to you ahead of time.

In each session, different topics pertaining to research design, data analysis, manuscript writing, medicine, and presentations will be covered. Students are expected to actively engage with their mentors in each session.

At the end of each session, an assignment will be assigned based on the topic that was covered in the lesson plan. Assignments will be graded and reviewed in the beginning of each lesson plan.

All students are expected to submit a manuscript and give a poster presentation at the end of the course. The manuscript article will be published in the Rising Researchers Journal, which is released twice a year in the spring and fall. Students will give a poster presentation, followed by questions from the audience. All poster presentations will occur twice a year in the spring and fall.

RISING RESEARCHERS COURSE OUTLINE

Week 1: Introduction to Research

- Introduce types of research
 - Discuss the basics of how research projects can be designed
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Week 2: Research Format

- Develop research topic and design
 - Discuss the contents of a research paper
 - Discuss how to perform a literature review
-

Week 3: Reviewing Scientific Articles

- Learn what relevant information needs to be drawn from scientific articles
 - Review published literature with research mentor
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Week 4: Data Analysis and Creating Figures

- Understand how to interpret statistical significance
 - Practice calculations with a set of data
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Week 5: Manuscript Writing I

- Learn how to structure the introduction, materials and methods, and results for manuscript
- Review how to interpret data and findings

RISING RESEARCHERS COURSE OUTLINE

Week 6: Manuscript Writing II

- Learn to write an abstract and discussion
 - Learn to properly cite references in the article and reference section
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Week 7: Manuscript Writing III

- Review of final manuscript and prepare for submission
 - Learn how to create and format poster presentation
-

Week 8: Introduction to Medicine

- Introduction to BS/MD and BS/DO programs or medical school (dependent on the applicant). Learn about strategies for a competitive application.
 - Learn about different pathways to medicine: Allopathic and Osteopathic
 - Learn about life as a medical student
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Week 9: Healthcare Issues in Medicine

- Introduction to healthcare barriers and current common issues in healthcare
 - Review poster with research mentor and prepare for presentation
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Week 10: Poster Presentation Practice

- Present a poster presentation to your research mentor. Mentors will provide feedback on quality of presentations.
- Reflect on what you have learned throughout the process

GRADING

Breakdown of grading rubric:

Attendance 20%

Participation 20%

Weekly assignment completion 20%

Manuscript completion 20%

Final Poster Presentation 20%

This course is graded. Only students with a B grade or higher will be eligible to publish in the Rising Researchers Journal. The final grade will be determined based on the cumulative grades given throughout each session:

A: 90-100%

B: 80-89%

C: 70-79%

D: 60-69%

F: <59%

ACADEMIC HONESTY POLICY

Rising Researchers require integrity and honesty in scholarship and research. Plagiarism and violation of academic integrity is prohibited and will be subject to failure of the Rising Researchers course, forfeiting publication in the journal. Academic dishonesty includes but is not limited to:

- Cheating - intentional use or attempted use of trickery or deception in one's academic work
- Fabrication - intentional falsification and/or invention of any information or citation
- Plagiarism - knowingly representing the words or ideas of another as one's own work
- Facilitating dishonesty - knowingly helping or attempting to help another commit an act of academic dishonesty

LETTERS OF RECOMMENDATION

Letters of recommendation can be provided by request. Students must have a B grade or higher to be eligible to receive a letter of recommendation. We have set this requirement to ensure that research mentors feel confident in providing a strong letter that attests to the quality of work and personal attributes when recommending a student.

Please request letters of recommendations at least 2 weeks in advance of the deadline to ensure proper time for processing and submission.

ADDITIONAL RESEARCH OPPORTUNITIES FOR EXEMPLARY STUDENTS

After completing the Rising Researchers course, students who achieve 100% will be placed in a pool of candidates who will be eligible to write research papers with medical students and physicians. These types of papers are aimed at publishing in indexed academic journals, which are important for demonstrating academic rigor during medical training and practice.

Participation in these additional opportunities are not required and will not affect your Rising Researchers grade. Projects and cases are of limited quantity and are not guaranteed. When a project or case is available, students will be asked about their interest in voluntary participation. Authorship on published projects and cases are determined by the student's contributions.

This type of mentorship will not incur any additional costs.