



Welcome to Science Scholars

Mr. Mark Nowak



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Science Scholars Symposium

*Wednesday, February 6, 2019
EHS Library and E-building
6:30-8:30 pm*

Science Scholars Overview

2 ½ year program -

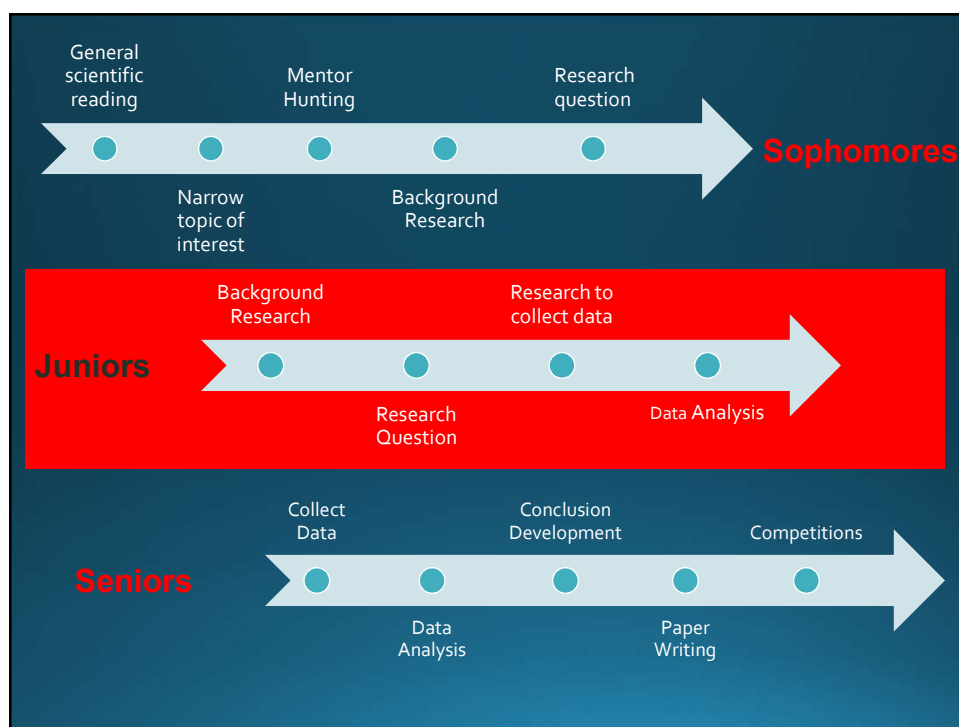
- Sophomore
- Junior
- Senior (1st semester)

*Includes significant time commitment
during the summer*

Science Scholars Goals

Develop skills of:

- Logical organization
- Presentation of information
- Independant planning and time management
- Communication
- Ability to anticipate and answer questions



Sophomore Year

Summer Before:

- summer reading assignment- general scientific reading to explore possible interests

School Year:

- Library training- Literature searches
- Narrowing of Focus
- Readings in primary source journals
- ***Finding a mentor***
- Development of a Research Question
- Presentation skills practice
- Participation at EHS Science Symposium
- Attend research competition

Junior Year

Summer Before:

- Average ~4-6 weeks of research
- Direct immersion with lab procedures and techniques
- Can involve the beginning of data acquisition

School Year:

- Reflect upon summer work
- Plan for completion of work the following summer with mentor
- Hypothesis refined
- ***Extensive reading of background scientific research***
- Make presentations on research progress
- Participation at EHS symposium
- Possibly compete at research competitions
- Mentor Sophomores

Senior 1st Semester

Summer Before:

- Average ~6-8 weeks of full time research on project
- Data collection/analysis essentially complete by end of summer
- Begin writing final paper for competitions

School Year:

- Refine and complete research paper
- Develop formal presentations for competitions
- Continue interactions with mentor for paper and presentations
- Present oral presentation of final research at EHS Symposium
- Mentor Underclassmen
- **Compete at 4 local, state, and national symposia/competitions (3 required, 1 choice)**

Senior Year Competitions

Competitions:

- Required
 - Regeneron STS- online submission
 - WR-JSHS- in person- Saturday, Feb, 9, 2019
 - WESEF- in person- Saturday, March 16, 2019
- Optional (choose at least 1)
 - Acorda Therapeutics Scientific Excellence Award- online
 - Tri-County Science & Technology Fair- in person- Saturday, April 27, 2019
 - Google Science Fair- online
 - BioGENEius
 - Etc....