WHAT IS GEMSTONE?

• 4-year interdisciplinary team research program
• Teams of 8-12 students conduct research with one faculty mentor over 3 years
• Sequential curriculum with co-curricular leadership opportunities
CURRENT GEMSTONE TEAMS

• Developing an eco-friendly roadway anti-icer that can be used as a substitute for road salts.

• Examining environmental inequality disparity regarding emergency flood preparedness in Maryland.

• Developing a bacteriophage-based therapeutic cocktail as an alternative treatment against antibiotic-resistant infections.

• Improving spacesuit joint design with the goal of making astronaut spacewalks easier and more productive.

• Creating a low-cost optical wireless communication network for scuba diving applications.
CURRICULUM OVERVIEW

- 1st year: Research topic exploration
- 2nd year: Research design & methods, thesis proposal
- 3rd year: Data collection, preliminary results
- 4th year: Complete data collection, defend & publish final thesis

Total 18 credits, some overlap with General Education requirements.
LEADERSHIP OPPORTUNITIES

- Gemstone Leadership Council
- Gems Camp Leader
- Gems Camp Planning Committee
- Gemstone CONNECT
- GEMS100 Steering Committee
- Gemstone Section Leader
- Gemstone Strategic Outreach
SOME CURRENT STUDENTS

CHRISTINA | 2019
Economics, Minor in Sustainability Studies
Team SPACE

ZOFIA | 2022
Biological Sciences: Physiology & Neurobiology
Not on a team yet!

DANIEL | 2020
Computer Science & Economics
Team PROCESS

HAYLEY | 2020
Environmental Science
Team E-JUSTICE

SHIVANI | 2021
Biological Sciences: Cellular & Molecular Biology
Team NOSALT

Don't forget to make your program preference by February 15th!
http://honors.umd.edu

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