



## **STEM OPPORTUNITIES AT NOTRE DAME ACADEMY**

At NDA, we know that the curiosity that drives innovation begins early in a girl's life. Our STEM (Science, Technology, Engineering, and Mathematics) programs spark imagination, build confidence, and empower young women to see themselves as problem-solvers and leaders in a rapidly changing world. Through hands-on projects, collaborative learning, and real-world applications, our girls gain technical skills as well as the creativity and resilience that define true innovators.

### **NDA STEM OVERVIEW**

NDA offers a wide variety of STEM-related instruction from grades 6-12. Subjects include Artificial Intelligence, Data Science, 3D Design, Programming, Cybersecurity, Engineering, Robotics, Electronics, Media Production, Game Development, and more.

We have complete Programming Pathways for students beginning in 8<sup>th</sup> grade and continuing through a post-AP level course for high school students.

STEM students participate in many national and international contests throughout the year. Contests include Boston area events like BU Hacks High School, MIT Blueprint, MIT Scrapyard, and Starhacks. Last year, NDA students traveled to Lockheed Martin's Codequest Challenge in Stratford, CT.

NDA students have earned awards in international coding contests. All four of our American Computer Science League members were finalists last year. One 9<sup>th</sup> grader was recognized as top 10 finalist in CodeART's international animation competition. Another won an honorable mention in CodeART's CodeYourself..

We host the IDCD Hackathon and work with Data Center and Mission Critical Association 7X24 Exchange to run this open high school science challenge each year.

Our FTC robotics team, the Cougars, has qualified for the state championship in their second and third year as a team. They have earned several awards, including an Inspire Award and Connect Award.

Recent NDA graduates are studying computer science-related subjects at:

- Yale University
- Harvard University
- Cornell University
- Boston College
- Worcester Polytechnic Institute
- New York University
- Wellesley College