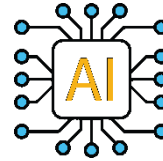
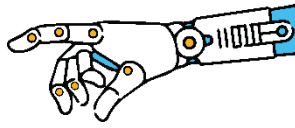


# CAT Program Progression

Incoming students select from three pathways...

- 1) **Robotics**
- 2) **Artificial Intelligence**
- 3) **Content Creation**



9 <sup>th</sup> Grade
Pre-AP English (1 or 2)
Geometry Honors or Algebra 2 Honors
Biology Honors
AP Human Geography
<b>Pathway (Robotics, AI, Content Creation)</b>
<b>Foundations of Programming</b>
World Language, Arts, or Pathway Elective

10 <sup>th</sup> Grade
AP English Language & Composition
Algebra 2 Honors or AP Precalculus
Pre-AP Chemistry
AP World History or AP Capstone Seminar
<b>Pathway 2 (Robotics, AI, Content Creation)</b>
<b>Dell Tech, AP Computer Science, Pathway</b>
World Language, Arts, or Pathway Elective

11 <sup>th</sup> Grade
AP English Literature
AP Precalculus or AP Calculus AB
Physics Honors
AP United States History
<b>Pathway 3 (Robotics, AI, Content Creation)</b>
<b>Dell Tech, AP Computer Science, Pathway</b>
AP Capstone Research

12 <sup>th</sup> Grade
AP English or Dual Enrollment
AP Calculus AB, Calculus BC, or Statistics
AP Science Option
AP US Gov't and Economics
<b>Pathway 4 (Capstone Project)</b>
<b>Dell Tech, AP Computer Science, Pathway</b>
Additional Elective

Pathway Progressions		
Robotics	Artificial Intelligence	Content Creation
Foundations of Robotics	AI in the World/Applications of AI	Digital Media Fundamentals
Robotic Design Essentials	Procedural Programming	Digital Media Production Systems
Robotic Systems	Foundations of Machine Learning	Digital Media Delivery Systems
Robotics Applications	AI Capstone	Advanced Digital Media Systems

## Program Outcomes

**CAT Program Seal** (must complete at least 3 years of a pathway)

**AP Capstone Diploma** (Seminar and Research plus 4 additional AP courses)

**Industry Certifications** and career readiness within each pathway

**Bright Futures Scholarship** and college readiness