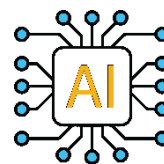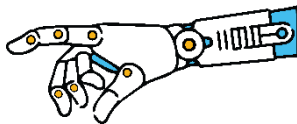# CAT Program Progression

Incoming students select from three pathways…

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

9th Grade	
Pre-AP English (1 or 2)	World Language or Elective
Geometry or Algebra 2	**Pathway 1 (Robotics, AI, Content Creation)**
Biology Honors	**Foundations of Programming**
AP Human Geography	**Research 1**

10th Grade	
Pre-AP English 2 or AP English Comp	World Language or Elective
Algebra 2 or AP PreCalculus	**Pathway 2 (Robotics, AI, Content Creation)**
Pre-AP Chemistry	**AP Capstone (Seminar)**
AP World History	**Dell Student Tech or AP Computer Science**

11th Grade	
AP English Comp or AP English Lit	Elective (AP or Dual Enrollment Option)
AP Precalculus or AP Calculus	**Pathway 2 (Robotics, AI, Content Creation)**
Physics Honors	**AP Capstone (Research)**
AP US History	**Dell Student Tech or Procedural Programming**

12th Grade	
AP English Option	**Pathway 4 (Capstone Project)**
AP Math Option	**Dell Student Tech or Programming Option**
AP Science Option	Elective (Dual Enrollment/AP Option)
US Government/Economics	Elective (Dual Enrollment/AP Option)

*Students who complete a minimum 3-year pathway earn the **CAT Seal**.

*Students who successfully complete AP Capstone (Seminar and Research) plus 4 additional AP courses will earn the **AP Capstone Diploma**.

*Students earn multiple **Industry Certifications** within each pathway.

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