

# Central Academy of Technology and Arts Pathways

## “Class of 2028”

### Information Technology – Cyber Security

9 <sup>th</sup>	CompTIA IT Fundamentals	AP Computer Science Principles
10 <sup>th</sup>	Network Engineering Tech I Honors Python Programming 1 Honors (Optional)	Intro to Cyber Security AP Computer Science A (optional)
11 <sup>th</sup>	<b>CCT 110:</b> Intro to Cyber Crime <b>CET 150:</b> Computer Forensics I	<b>CTI 120:</b> Networking & Security Foundations <b>CET 250:</b> Computer Forensics II
12 <sup>th</sup>	<b>CCT 112:</b> Ethics and High Technology <b>CCT 121:</b> Computer Crime Investigation with SPCC	<b>SEC 110:</b> Security Concepts <b>CCT 231:</b> Technology Crime and Law

### Information Technology – Computer Engineering

9 <sup>th</sup>	CompTIA IT Fundamentals	Microsoft Excel Expert
10 <sup>th</sup>	Computer Engineering Tech I	Computer Engineering Tech II Honors
11 <sup>th</sup>	Network Engineering Tech I Honors	Network Engineering Tech II Honors
12 <sup>th</sup>	<b>Optional electives:</b> Electronics DC Honors (Level 1), Electronics AC Honors (Level 2), Robotics Honors	Network Engineering Tech III Honors

### Information Technology – Software & Game Design

9 <sup>th</sup>	Microsoft Excel Expert or Visual Art I	AP Computer Science Principles
10 <sup>th</sup>	Python Programming I Honors (Programming Track) <b>OR</b> <b>Adobe Visual Design (Arts track)</b>	AP Computer Science A (Programming track) <b>OR</b> <b>Adobe Video Design Honors (Arts track)</b>
11 <sup>th</sup>	Digital Design and Animation I Honors	AP Computer Science A or Digital Design and Animation II Honors
12 <sup>th</sup>	Game Art & Design Honors	Advanced Game Art & Design Honors

### Medical Science

9 <sup>th</sup>	PLTW Principles of Biomedical Honors	Health Science I Honors
10 <sup>th</sup>	PLTW Human Body Systems Honors	Health Science II Honors
11 <sup>th</sup>	PLTW Medical Interventions Honors	
12 <sup>th</sup>	PLTW Biomedical Innovation Honors	<b>Optional electives:</b> Sports Medicine 1 Honors, CTE Medical Internship

### Performing Arts - Dance

9 <sup>th</sup>	Tech Theatre I	Dance I
10 <sup>th</sup>	Dance II	Dance III Honors
11 <sup>th</sup>	Dance III Honors	Dance IV Honors
12 <sup>th</sup>	<b>Optional electives:</b> Tech Theatre I, Apparel II, Dance Specialization Honors	Dance IV Honors

### Performing Arts – Music Production and Recording Arts

9 <sup>th</sup>	Music Theory Honors	Either Band or Chorus
10 <sup>th</sup>	Adobe Visual Design Either Band, Chorus, or Music Specialization	Audio Engineering Tech I Honors
11 <sup>th</sup>	Audio Engineering Tech II Honors Either Band, Chorus, or Music Specialization	Adobe Video Design Honors
12 <sup>th</sup>	CTE Advanced Studies in AATV pathway	Either Band or Chorus, Music Specialization, or Internship Adv. Film Editing and Production Honors (Optional)

### Performing Arts - Theatre

9 <sup>th</sup>	Theatre I	Apparel I & Chorus
10 <sup>th</sup>	Technical Theatre I and Theatre II	Theatre III Honors
11 <sup>th</sup>	Theatre III Honors	Theatre IV Honors
12 <sup>th</sup>	Theatre IV Honors	<b>Optional electives:</b> Theatre Specialization Honors, Tech Theatre II, Play Production, Apparel II, Physical Theatre

### Pre-Engineering: **Pre-Engineering Track** ; **Pre-Engineering Tech Track**

9 <sup>th</sup>	PLTW Intro to Engineering Design (IED) (Both tracks)	Robotics I Honors (Both tracks)
10 <sup>th</sup>	Electronics DC Honors (Both tracks)	Electronics AC Honors (Both tracks)
11 <sup>th</sup>	PLTW Principles of Engineering (POE)  <b>Advanced Manufacturing 1 Honors</b>	<b>Robotics II Honors</b>
12 <sup>th</sup>	PLTW Engineering Design & Development (EDD)  <b>Advanced Manufacturing 2 Honors</b>	<b>Elective Options</b> – PLTW Aerospace Engineering (AE), PLTW Civil Engineering & Architecture (CEA), AP Computer Science, Advanced Manufacturing I and II, PLTW Computer Integrated Manufacturing

### Transportation - Auto Technology

<b>9<sup>th</sup></b>		Automotive Service Fundamentals
<b>10<sup>th</sup></b>	Auto Service I	Auto Service II
<b>11<sup>th</sup></b>	Auto Service III	Auto Service – Engine Drivetrain
<b>12<sup>th</sup></b>	CTE Advanced Studies (optional)	Auto Service – Suspension Chassis Electrical

### Transportation – Collision

<b>9<sup>th</sup></b>		Collision Repair Fundamentals
<b>10<sup>th</sup></b>	Collision Repair I	
<b>11<sup>th</sup></b>	Collision Repair II Non-structural	Collision Repair II Refinishing
<b>12<sup>th</sup></b>		CTE Advanced Studies or CTE Internship Transportation

### International Academy

<b>9<sup>th</sup> and 10<sup>th</sup></b>	<p><i>IB Diploma Programme Prerequisites:</i></p> <p>Honors Math 1, 2, AND 3</p> <p>Honors English 1 OR Adv. Inquiry AND Honors English 2</p> <p>Honors Earth Science, Honors Biology, AND Honors Chemistry</p> <p>Honors Civic Literacy AND Honors Economics and Personal Finance</p> <p>Spanish/French 1, 2, AND 3</p> <p>Health/PE</p> <p>Visual Art 1</p>	<p><i>Suggested courses (These courses are not required but are helpful for success in the IB DP)</i></p> <p>AP Precalculus</p> <p>Spanish/French IV Honors</p> <p>Advanced Inquiry Honors</p>
<b>11<sup>th</sup> and 12<sup>th</sup></b>	<p><i>IB Diploma Programme requirements:</i></p> <p>IB Language and Literature*</p> <p>IB French</p> <p>IB Spanish</p> <p>IB History*</p> <p>IB Biology</p> <p>IB Applications and Interpretation*</p> <p>IB Visual Arts</p> <p>IB Theory of Knowledge</p>	<p><i>These courses will be taken yearlong on an A/B schedule over two years.</i></p> <p>*This course will also count towards graduation requirements</p>