## 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	Intro to Cyber Security
	Python Programming 1 Honors	AP Computer Science A (optional)
	(Optional)	
11 <sup>th</sup>	CTI 140: Virtualization Concepts	CTI 141: Cloud and Storage Concepts
	NOS 120: Linux/UNIX Single User	NOS 230: Windows Administration I
12th	SEC 110: Security Concepts	SEC 160: Security Administration I
	<b>SEC 150:</b> Secure Communications	SEC 258: Security Compliance

**Information Technology – Computer Engineering** 

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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	Network Engineering Tech III Honors
	Honors (Level 1), Electronics AC	
	Honors (Level 2), Robotics 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	AP Computer Science A (Programming
	(Programming Track) <b>OR</b>	track) <b>OR</b>
	Adobe Visual Design 1 Honors (Arts	Adobe Video Design 1 Honors (Arts track)
	track)	
11 <sup>th</sup>	3D Modeling and Animation I	AP Computer Science A
		3D Modeling and Animation II
12th	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	
12th	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
12th	Optional electives: Tech Theatre I,	Dance IV Honors
	Apparel II, Dance Specialization Honors	

**Performing Arts – Music Production and Recording Arts** 

9 <sup>th</sup>	Music Theory Honors	Either Band or Chorus
10 <sup>th</sup>	Adobe Video Design I Honors	Audio Engineering Tech I Honors
	Either Band, Chorus, or Music	
	Specialization	
11 <sup>th</sup>	Audio Engineering Tech II Honors	Adobe Video Design II Honors
	Either Band, Chorus, or Music	Optional: Adobe Visual Design I Honors
	Specialization	
12th	CTE Advanced Studies in AATV	Either Band or Chorus, Music
	pathway	Specialization, or Internship

**Performing Arts - Theatre** 

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

**Transportation - Auto Technology** 

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

**Transportation – Collision** 

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

**International Academy** 

IDD: 1 D D	C . 1 //TI
IB Diploma Programme Prerequisites:	Suggested courses (These courses are not
	required but are helpful for success in the
Honors Math 1, 2, AND 3	IB DP)
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Honors English 1 OR Adv Inquiry AND	AP Precalculus
	THE Floridation
Honors English 2	Chanish/Eranah IV Hanara
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AND Honors Chemistry	Advanced Inquiry Honors
Honors Civic Literacy AND Honors	
Economics and Personal Finance	
Spanish/French 1 2 AND 3	
Spunish/Tiehen 1, 2, 11(D 3	
Health/DE	
Health/PE	
Visual Art 1	
IB Diploma Programme requirements:	These courses will be taken yearlong on an
	A/B schedule over two years.
IB Language and Literature*	, in the second
	*This course will also count towards
	graduation requirements
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IB Visual Arts	
IB Theory of Knowledge	
	Economics and Personal Finance  Spanish/French 1, 2, AND 3  Health/PE  Visual Art 1  IB Diploma Programme requirements:  IB Language and Literature* IB French IB Spanish IB History* IB Biology IB Applications and Interpretation* IB Visual Arts