Central Academy of Technology and Arts Pathways "Class of 2029"

Information Technology – Cyber Security

9 th	CompTIA IT Fundamentals	AP Computer Science Principles
10 th	Network Engineering Tech I Honors	PLTW Intro to Cyber Security
	Python Programming 1 Honors	AP Computer Science A (optional)
	(Optional)	
11 th	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
	SEC 150: Secure Communications	SEC 258: Security Compliance

Information Technology – Computer Engineering

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

Information Technology – Software & Game Design

9 th	Microsoft Excel Expert or Visual Art I	AP Computer Science Principles
10 th	Python Programming I Honors	AP Computer Science A (Programming
	(Programming Track) OR	track) OR
	Adobe Visual Design 1 Honors (Arts	Adobe Video Design 1 Honors (Arts track)
	track)	
11 th	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 th	PLTW Principles of Biomedical Honors	Health Science I Honors
10 th	PLTW Human Body Systems Honors	Health Science II Honors
11 th	PLTW Medical Interventions Honors	
12th	PLTW Biomedical Innovation Honors	Optional electives: Sports Medicine 1
		Honors, CTE Medical Internship

Performing Arts - Dance

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9 th	Tech Theatre I	Dance I
10 th	Dance II	Dance III Honors
11 th	Dance III Honors	Dance IV Honors
12th	Optional electives: Tech Theatre I, Apparel II, Dance Specialization Honors	Dance IV Honors

Performing Arts – Music Production and Recording Arts

9 th	Music Theory Honors	Either Band or Chorus
10 th	Adobe Video Design I Honors	Audio Engineering Tech I Honors
	Either Band, Chorus, or Music	
	Specialization	
11 th	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 th	Theatre I	Apparel I & Musical Theatre
10 th	Technical Theatre I and Theatre II	Theatre III Honors
11 th	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 th	PLTW Intro to Engineering Design	Robotics I Honors
	(IED) (Both tracks)	(Both tracks)
10 th	Electronics DC Honors	Electronics AC Honors
	(Both tracks)	(Both tracks)
11 th	PLTW Principles of Engineering (POE)	PLTW Computer Integrated
		Manufacturing (CIM)
	Advanced Manufacturing 1 Honors	
		Manufacturing Robotics Honors
12th	PLTW Capstone	Elective Options – PLTW Aerospace
		Engineering (AE), PLTW Civil
	Advanced Manufacturing 2 Honors	Engineering & Architecture (CEA), AP
		Computer Science, Advanced
		Manufacturing I and II, Manufacturing
		Robotics Honors

Transportation - Auto Technology

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

Transportation – Collision

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

International Academy

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