# Central Academy of Technology and Arts Pathways
## "Class of 2021"

### Information Technology – Cyber Security

| | | |
|---|---|---|
| 9th | Foundations of Information Technology | Computer Programming I Honors |
| 10th | Microsoft Excel & Intro to Cyber Security Honors | Network Engineering Tech I Honors |
| 11th | Intro to Cyber Crime & Intro to Computers with SPCC | Ethics and High Technology & Computer Crime Investigation with SPCC |
| 12th | Security Concepts & Computer Forensics I with SPCC | Computer Forensics II & Technology Crime and Law with SPCC |

### Information Technology – Computer Engineering

| | | |
|---|---|---|
| 9th | Foundations of Information Technology | Microsoft Excel/Access |
| 10th | Computer Engineering Tech I | Computer Engineering Tech II Honors |
| 11th | Network Engineering Tech I Honors | Network Engineering Tech II Honors |
| 12th | | Network Engineering Tech III Honors |

### Information Technology – Software & Game Design

| | | |
|---|---|---|
| 9th | Microsoft Excel/Access | Computer Programming I Honors |
| 10th | AP Computer Science Principles | Scientific & Technical Visualization I Honors |
| 11th | SAS Programming I Honors | AP Computer Science A |
| 12th | Game Art & Design Honors | Advanced Game Art & Design Honors CTE Advanced Studies/Independent Study (optional) |

### Medical Science

| | | |
|---|---|---|
| 9th | PLTW Principles of Biomedical Honors | Health Science I Honors |
| 10th | PLTW Human Body Systems Honors | Sports Medicine I Honors |
| 11th | PLTW Medical Interventions Honors | |
| 12th | PLTW Biomedical Innovation Honors | Health Science II Honors, CTE Medical Internship, and/or Sports Medicine II  (optional) |

### Performing Arts - Dance

| | | |
|---|---|---|
| 9th | Apparel I | Dance I |
| 10th | Dance II | Dance III Honors |
| 11th | Dance III Honors | Dance IV Honors |
| 12th | Technical Theatre (optional) Dance Specialization Advance Honors (optional) | Dance IV Honors |

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

| 9th | Either Band, Chorus, or Piano | Music Theory Honors |
|---|---|---|
| 10th | Multimedia & Web Page Design<br>Either Band, Chorus, or Piano | Digital Film & Production I Honors |
| 11th | Audio Engineering Tech I Honors<br>Either Band, Chorus, or Piano | Audio Engineering Tech II Honors |
| 12th | CTE Advanced Studies in Business and Information and/or Digital Film & Production II Honors | Either Band, Chorus, Internship, and/or Music Specialization |

**Performing Arts - Theatre**

| 9th | Theatre I & Apparel I | Musical Theatre |
|---|---|---|
| 10th | Technical Theatre I and Theatre II | Theatre III Honors |
| 11th | Theatre III Honors | Theatre IV Honors |
| 12th | Theatre IV Honors | Theatre Specialization Advanced Honors and/or Play Production (optional) |

**Pre-Engineering**

| 9th | PLTW Intro to Engineering Design (IED) | Drafting I Honors |
|---|---|---|
| 10th | Electronics I | PLTW Digital Electronics (DE) |
| 11th | PLTW Computers Integrated Manufacturing (CIM) | PLTW Principles of Engineering (POE) |
| 12th | PLTW Engineering Design & Development (EDD) | **Elective Options** – PLTW Aerospace Engineering (AE), PLTW Civil Engineering & Architecture (CEA), Drafting II Honors, & Metals I Honors |

**Transportation - Auto Technology**

| 9th | | Intro to Auto Services |
|---|---|---|
| 10th | Auto Service I | Auto Service II |
| 11th | Auto Service III | Auto Service – Engine Drivetrain |
| 12th | Auto Service – Suspension Chassis Electrical | CTE Advanced Studies (optional) |

**Transportation – Collision**

| 9th | | Collision Repair Fundamentals |
|---|---|---|
| 10th | Collision Repair I Introduction | |
| 11th | Collision Repair Non-structural | Collision Repair Refinishing |
| 12th | Collision Repair Estimating | CTE Advanced Studies (Optional) |

# Central Academy of Technology and Arts Pathways
## "Class of 2022"

### Information Technology – Cyber Security

| | | |
|---|---|---|
| 9th | Comp TIA IT Fundamentals | Python Programming I Honors |
| 10th | Networking Engineering Tech I Honors | Intro to Cyber Security Honors |
| 11th | Intro to Cyber Crime & Intro to Computers with SPCC | Ethics and High Technology & Computer Crime Investigation with SPCC |
| 12th | Security Concepts & Computer Forensics I with SPCC | Computer Forensics II & Technology Crime and Law with SPCC |

### Information Technology – Computer Engineering

| | | |
|---|---|---|
| 9th | Comp TIA IT Fundamentals | Microsoft Excel/Access |
| 10th | Computer Engineering Tech I | Computer Engineering Tech II Honors |
| 11th | Network Engineering Tech I Honors | Network Engineering Tech II Honors |
| 12th | | Network Engineering Tech III Honors |

### Information Technology – Software & Game Design

| | | |
|---|---|---|
| 9th | Microsoft Excel/Access | Python Programming I Honors |
| 10th | AP Computer Science Principles | Digital Design and Animation I Honors |
| 11th | Python Programming II Honors or Adobe Visual Design | AP Computer Science A or Digital Design and Animation Honors II |
| 12th | Game Art & Design Honors | Advanced Game Art & Design Honors CTE Advanced Studies/Independent Study (optional) |

### Medical Science

| | | |
|---|---|---|
| 9th | PLTW Principles of Biomedical Honors | Health Science I Honors |
| 10th | PLTW Human Body Systems Honors | Sports Medicine I Honors |
| 11th | PLTW Medical Interventions Honors | |
| 12th | PLTW Biomedical Innovation Honors | Health Science II Honors, CTE Medical Internship, and/or Sports Medicine II Honors  (optional) |

### Performing Arts - Dance

| | | |
|---|---|---|
| 9th | Apparel I | Dance I |
| 10th | Dance II | Dance III Honors |
| 11th | Dance III Honors | Dance IV Honors |
| 12th | Technical Theatre (optional) Dance Specialization Advance Honors (optional) | Dance IV Honors |

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

| | | |
|---|---|---|
| 9th | Either Band, Chorus, or Piano | Music Theory Honors |
| 10th | Multimedia & Web Page Design<br>Either Band, Chorus, or Piano | Audio Engineering Tech I Honors |
| 11th | Audio Engineering Tech II Honors<br>Either Band, Chorus, or Music Specialization | Adobe Video Design Honors |
| 12th | CTE Advanced Studies in Business and Information | Either Band, Chorus, Internship, and/or Music Specialization |

**Performing Arts - Theatre**

| | | |
|---|---|---|
| 9th | Theatre I & Apparel I | Musical Theatre |
| 10th | Technical Theatre I & Theatre II | Theatre III Honors |
| 11th | Theatre III Honors | Theatre IV Honors |
| 12th | Theatre IV Honors | Theatre Specialization Advanced Honors and/or Play Production (optional) |

**Pre-Engineering**

| | | |
|---|---|---|
| 9th | PLTW Intro to Engineering Design (IED) | Drafting I Honors |
| 10th | Electronics DC Honors | Electronics AC Honors |
| 11th | PLTW Computers Integrated Manufacturing (CIM) | PLTW Principles of Engineering (POE) |
| 12th | PLTW Engineering Design & Development (EDD) | **Elective Options** – PLTW Aerospace Engineering (AE), PLTW Civil Engineering & Architecture (CEA), Drafting II Honors, & Metals I Honors |

**Transportation - Auto Technology**

| | | |
|---|---|---|
| 9th | Intro to Auto Services | |
| 10th | Auto Service I | Auto Service II |
| 11th | Auto Service III | Auto Service – Engine Drivetrain |
| 12th | CTE Advanced Studies (optional) | Auto Service – Suspension Chassis Electrical |

**Transportation – Collision**

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

# Central Academy of Technology and Arts Pathways
# "Class of 2023"

**Information Technology – Cyber Security**

| | | |
|---|---|---|
| 9th | Comp Tia IT Fundamentals | Python Programming I Honors |
| 10th | Network Engineering Tech I Honors | Intro to Cyber Security Honors |
| 11th | Intro to Cyber Crime & Intro to Computers with SPCC | Ethics and High Technology & Computer Crime Investigation with SPCC |
| 12th | Security Concepts & Computer Forensics I with SPCC | Computer Forensics II & Technology Crime and Law with SPCC |

**Information Technology – Computer Engineering**

| | | |
|---|---|---|
| 9th | Comp Tia IT Fundamentals | Microsoft Excel/Access |
| 10th | Computer Engineering Tech I | Computer Engineering Tech II Honors |
| 11th | Network Engineering Tech I Honors | Network Engineering Tech II Honors |
| 12th | | Network Engineering Tech III Honors |

**Information Technology – Software & Game Design**

| | | |
|---|---|---|
| 9th | Microsoft Excel/Access | AP Computer Science Principles |
| 10th | Python Programming I Honors or Adobe Visual Design | Python Programming II Honors or Adobe Video Design Honors |
| 11th | Digital Design and Animation I Honors | AP Computer Science A or Digital Design and Animation II Honors |
| 12th | Game Art & Design Honors | Advanced Game Art & Design Honors |

**Medical Science**

| | | |
|---|---|---|
| 9th | PLTW Principles of Biomedical Honors | Health Science I Honors |
| 10th | PLTW Human Body Systems Honors | Sports Medicine I Honors |
| 11th | PLTW Medical Interventions Honors | Sports Medicine II Honors (optional) |
| 12th | PLTW Biomedical Innovation Honors | Health Science II Honors CTE Medical Internship  (optional) |

**Performing Arts - Dance**

| | | |
|---|---|---|
| 9th | Apparel I | Dance I |
| 10th | Dance II | Dance III Honors |
| 11th | Dance III Honors | Dance IV Honors |
| 12th | Technical Theatre (optional) Dance Specialization Advance Honors (optional) | Dance IV Honors |

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

| | | |
|---|---|---|
| **9th** | Music Theory Honors | Either Band, Chorus, or Piano |
| **10th** | Adobe Visual Design<br>Either Band, Chorus, or Music Specialization | Audio Engineering Tech I Honors |
| **11th** | Audio Engineering Tech II Honors<br>Either Band, Chorus, or Music Specialization | Adobe Video Design Honors |
| **12th** | CTE Advanced Studies in Business and Information | Either Band, Chorus, Internship, & Music Specialization |

**Performing Arts - Theatre**

| | | |
|---|---|---|
| **9th** | Theatre I | Apparel I & Chorus |
| **10th** | Technical Theatre I and Theatre II | Theatre III Honors |
| **11th** | Theatre III Honors | Theatre IV Honors |
| **12th** | Theatre IV Honors | Theatre Special and/or Play Production (optional) |

**Pre-Engineering**

| | | |
|---|---|---|
| **9th** | PLTW Intro to Engineering Design (IED) | Drafting I Honors |
| **10th** | Electronics DC Honors | Electronics AC Honors |
| **11th** | PLTW Computers Integrated Manufacturing (CIM) | PLTW Principles of Engineering (POE) |
| **12th** | PLTW Engineering Design & Development (EDD) | **Elective Options** – PLTW Aerospace Engineering (AE), PLTW Civil Engineering & Architecture (CEA), Drafting II Honors, & Metals I Honors |

**Transportation - Auto Technology**

| | | |
|---|---|---|
| **9th** | | Intro to Auto Services |
| **10th** | Auto Service I | Auto Service II |
| **11th** | Auto Service III | Auto Service – Engine Drivetrain |
| **12th** | CTE Advanced Studies (optional) | Auto Service – Suspension Chassis Electrical |

**Transportation – Collision**

| | | |
|---|---|---|
| **9th** | | Collision Repair Fundamentals |
| **10th** | Collision Repair I Introduction | |
| **11th** | Collision Repair Non-structural | Collision Repair Refinishing |
| **12th** | Collision Repair Estimating | CTE Advanced Studies |

# Central Academy of Technology and Arts Pathways
## "Class of 2024"

**Information Technology – Cyber Security**

| 9th | Comp Tia IT Fundamentals | Python Programming I Honors |
|---|---|---|
| 10th | Network Engineering Tech I Honors | Intro to Cyber Security Honors |
| 11th | Intro to Cyber Crime & Intro to Computers with SPCC | Ethics and High Technology & Computer Crime Investigation with SPCC |
| 12th | Security Concepts & Computer Forensics I with SPCC | Computer Forensics II & Technology Crime and Law with SPCC |

**Information Technology – Computer Engineering**

| 9th | Comp Tia IT Fundamentals | Microsoft Excel/Access |
|---|---|---|
| 10th | Computer Engineering Tech I | Computer Engineering Tech II Honors |
| 11th | Network Engineering Tech I Honors | Network Engineering Tech II Honors |
| 12th | | Network Engineering Tech III Honors |

**Information Technology – Software & Game Design**

| 9th | Microsoft Excel/Access | AP Computer Science Principles |
|---|---|---|
| 10th | Python Programming I Honors | Digital Design and Animation I Honors |
| 11th | Python Programming II Honors or Adobe Visual Design | AP Computer Science A or Digital Design and Animation II Honors |
| 12th | Game Art & Design Honors | Advanced Game Art & Design Honors |

**Medical Science**

| 9th | PLTW Principles of Biomedical Honors | Health Science I Honors |
|---|---|---|
| 10th | PLTW Human Body Systems Honors | Sports Medicine I Honors |
| 11th | PLTW Medical Interventions Honors | Sports Medicine II Honors (optional) |
| 12th | PLTW Biomedical Innovation Honors | Health Science II Honors CTE Medical Internship  (optional) |

**Performing Arts - Dance**

| 9th | Apparel I | Dance I |
|---|---|---|
| 10th | Dance II | Dance III Honors |
| 11th | Dance III Honors | Dance IV Honors |
| 12th | Technical Theatre Dance Specialization Advance Honors (optional) | Dance IV Honors |

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

| | | |
|---|---|---|
| **9th** | Music Theory Honors | Either Band or Chorus |
| **10th** | Adobe Visual Design<br>Either Band, Chorus, or Music Specialization | Audio Engineering Tech I Honors |
| **11th** | Audio Engineering Tech II Honors<br>Either Band, Chorus, or Music Specilization | Adobe Digital Design Honors |
| **12th** | CTE Advanced Studies in Business and Information | Either Band or Chorus, Music Specialization, or Internship |

**Performing Arts - Theatre**

| | | |
|---|---|---|
| **9th** | Theatre I | Apparel I & Chorus |
| **10th** | Technical Theatre I and Theatre II | Theatre III Honors |
| **11th** | Theatre III Honors | Theatre IV Honors |
| **12th** | Theatre IV Honors | Theatre Special and/or Play Production (optional) |

**Pre-Engineering**

| | | |
|---|---|---|
| **9th** | PLTW Intro to Engineering Design (IED) | Robotics I Honors |
| **10th** | Electronics DC Honors | Electronics AC Honors |
| **11th** | PLTW Computers Integrated Manufacturing (CIM) | PLTW Principles of Engineering (POE) |
| **12th** | PLTW Engineering Design & Development (EDD) | **Elective Options** – PLTW Aerospace Engineering (AE), PLTW Civil Engineering & Architecture (CEA), Drafting II Honors, & Metals I Honors |

**Transportation - Auto Technology**

| | | |
|---|---|---|
| **9th** | | Intro to Auto Services |
| **10th** | Auto Service I | Auto Service II |
| **11th** | Auto Service III | Auto Service – Engine Drivetrain |
| **12th** | CTE Advanced Studies (optional) | Auto Service – Suspension Chassis Electrical |

**Transportation – Collision**

| | | |
|---|---|---|
| **9th** | | Collision Repair Fundamentals |
| **10th** | Collision Repair I Introduction | |
| **11th** | Collision Repair Non-structural | Collision Repair Refinishing |
| **12th** | Collision Repair Estimating | CTE Advanced Studies |