# CTE - CIP Course Details Catalog

**Cluster: Arts, Audio/Video Technology and Communications**

**CIP: 50.0406 - Commercial Photography.**

<table>
<thead>
<tr>
<th>Status: Open</th>
<th>Start Year: 2011</th>
<th>End Year:</th>
</tr>
</thead>
</table>

**Minimum Carnegie Units: 2.00**

## Group 1

**Minimum Course Selection:**
- School: 1
- ACC: 0
- Regional: 0

<table>
<thead>
<tr>
<th>State Course ID</th>
<th>State Course Title</th>
<th>Max Carnegie Units</th>
<th>Start SY</th>
<th>End SY</th>
</tr>
</thead>
<tbody>
<tr>
<td>11002A001</td>
<td>Communication Technology</td>
<td>1.00</td>
<td>2011</td>
<td></td>
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<tr>
<td>21052A002</td>
<td>Introduction to Technology and Engineering (Industrial)</td>
<td>1.00</td>
<td>2011</td>
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<tr>
<td>11052A003</td>
<td>Beginning Photography</td>
<td>1.00</td>
<td>2012</td>
<td></td>
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<tr>
<td>21052A001</td>
<td>Foundations of Technology</td>
<td>1.00</td>
<td>2014</td>
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<tr>
<td>13052A001</td>
<td>Production Technology</td>
<td>1.00</td>
<td>2018</td>
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<tr>
<td>20001A001</td>
<td>Transportation Technology</td>
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<td>2018</td>
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<tr>
<td>20101A001</td>
<td>Energy Utilization Technology</td>
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<td></td>
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## Group 2

**Minimum Course Selection:**
- School: 0
- ACC: 1
- Regional: 1

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<tr>
<th>State Course ID</th>
<th>State Course Title</th>
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<th>Start SY</th>
<th>End SY</th>
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<tr>
<td>11052A001</td>
<td>Commercial Photography I</td>
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<td>2011</td>
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<tr>
<td>11052A002</td>
<td>Commercial Photography II</td>
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## Group 3

**Minimum Course Selection:**
- School: 0
- ACC: 0
- Regional: 0

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<th>State Course Title</th>
<th>Max Carnegie Units</th>
<th>Start SY</th>
<th>End SY</th>
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<tbody>
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<td>22153A001</td>
<td>Cooperative Education</td>
<td>3.00</td>
<td>2011</td>
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### Communication Technology

**State Course ID:** 11002A001  
**Course Title:** Communication Technology  
Communication Technology is a course designed to foster an awareness and understanding of the technologies used to communicate in our modern society. Students gain experience in the areas of design and drafting, radio and television broadcasting, computers in communication, photography, graphic arts, and telecommunications.

### Introduction to Technology and Engineering (Industrial)

**State Course ID:** 21052A002  
**Course Title:** Introduction to Technology and Engineering (Industrial)  
Introduction to Technology & Engineering is comprised of the following areas: Production, Transportation, Communication, Energy Utilization and Engineering Design but is not limited to these areas only. This course will cover the resources, technical processes, industrial applications, material sciences, technological impact and occupations encompassed by that system.

### Beginning Photography

**State Course ID:** 11052A003  
**Course Title:** Beginning Photography  
Beginning Photography course provides instruction in the use of conventional and digital cameras and laboratory film processing techniques. Topics covered in the course include composition and color dynamics; contact printing; enlarging; developing film and use of camera meters.

### Foundations of Technology

**State Course ID:** 21052A001  
**Course Title:** Foundations of Technology  
The course employs teaching/learning strategies that enable students to build their own understanding of new ideas. It is designed to engage students in exploring and deepening their understanding of “big ideas” regarding technology and apply technological processes to solve real problems and develop knowledge and skills to design, modify, use and apply technology in the following areas: engineering design, manufacturing technologies, construction technologies, energy & power, information & communication technologies and emerging technologies.

### Production Technology

**State Course ID:** 13052A001  
**Course Title:** Production Technology  
Production Technology is a course designed to foster an awareness and understanding of manufacturing and construction technology. Through a variety of learning activities, students are exposed to many career opportunities in the production field. Experiences in manufacturing include product design, materials and processes, tools and equipment including computers, safety procedures, corporate structure, management, research and development, production planning, mass production, marketing and servicing. In construction, students are exposed to site preparation, foundations, building structures, installing utilities, and finishing and servicing structures.

### Transportation Technology

**State Course ID:** 20001A001  
**Course Title:** Transportation Technology  
Transportation Technology is a course designed to foster an awareness and understanding of the various transportation customs that make up our mobile society. Through laboratory activities, students are exposed to the technologies of and career opportunities involved in material handling, atmospheric and space transportation, marine transportation, terrestrial transportation, and computer uses in transportation technology.

### Energy Utilization Technology

**State Course ID:** 20101A001  
**Course Title:** Energy Utilization Technology  
Energy Utilization Technology is a course designed to foster an awareness and understanding of how we use energy in our industrial technological society. Areas of study include conversion of energy, electrical fundamentals, solar energy resources, alternate energy resources such as wind, water, and geothermal; fossil fuels, nuclear power, energy conservation, and computer uses in energy technology. Students use laboratory experiences to become familiar with current energy technologies.
Course Descriptions

CIP: 50.0406 - Commercial Photography.

**State Course ID:** 11052A001  **Course Title:** Commercial Photography I

This course provides students with experiences related to the photography field including conventional and digital cameras. Planned experiences give students a clear and concise introduction in the following areas: safety and proper housekeeping of the photo studio, photography of visual and communicative discipline, constructing a usable cardboard camera and develop printing, learning basic terms, understanding how film/paper work, proper exposure, working in the darkroom and knowing all necessary darkroom activities, safe use of photo chemicals, using dyes, and mounting and matting a completed photographic image. In addition, students are introduced to photographic terms, using light meters to measure natural and artificial lighting, using various lighting sources, manipulating basic backgrounds with different light sources, conducting shop operations, performing camera work, processing film and performing darkroom work on black and white and color film, printing photographic images, purchasing equipment and supplies, and the selection and use of cameras, film, lenses, accessories, tripods and filters.

**State Course ID:** 11052A002  **Course Title:** Commercial Photography II

This course provides learning experiences related to the tools, materials, processes and practices utilized in the photography industry including conventional and digital cameras. Instruction includes arranging photography sessions, selecting and using cameras, film, lenses, and accessories, calculating and setting shutter speed, preparing darkroom equipment, mixing chemicals, processing film both black and white and color, printing photographic images such as enlargements, sandwich negatives, and copying slides. In addition, Commercial Photography II provides students with a better understanding of photographic images and their application in design. Students shoot photographs specifically for design layouts and in the process develop a better visual language, enhancing photo selection and editing skills. Students learn to visualize not only the look of the design, but also the structure and form of the photographs they shoot.

**State Course ID:** 22153A001  **Course Title:** Cooperative Education

Cooperative Education is a capstone course designed to assist students in the development of effective skills and attitudes through practical, advanced instruction in school and on the job through cooperative education. Students are released from school for their paid cooperative education work experience and participate in 200 minutes per week of related classroom instruction. Classroom instruction focuses on providing students with job survival skills and career exploration skills related to the job and improving students’ abilities to interact positively with others. For skills related to the job, refer to the skill development course sequences, the task list or related occupational skill standards of the desired occupational program. The course content includes the following broad areas of emphasis: further career education opportunities, planning for the future, job-seeking skills, personal development, human relationships, legal protection and responsibilities, economics and the job, organizations, and job termination. A qualified career and technical education coordinator is responsible for supervision. Written training agreements and individual student training plans are developed and agreed upon by the employer, student and coordinator. The coordinator, student, and employer assume compliance with federal, state, and local laws and regulations.