ADVERTISING DESIGN & COMMERCIAL ART
CIP: 50.0402

PROGRAM OVERVIEW

This program introduces students to the creative design industry. In a world where commercial art has never been more relevant, DCTS Advertising Design and Commercial Art offers students a community in which to develop the conceptual foundation and skills needed for admission to a post-secondary institution to refine their skills. Students learn the fundamentals to finish each project at an entry level. They are introduced to the relevant applications of the Adobe Creative Suite and explore mediums such as print design, electronic design, drawing and illustration.

Students learn the fundamentals to finish each project at a beginner level. They explore graphic design, advertising, print design, illustration, digital photography, and game art & design. Students gain an exceptional amount of knowledge and understanding of creative software such as Adobe Photoshop, Illustrator and InDesign.
INSIDE THE INDUSTRY

<table>
<thead>
<tr>
<th>OCCUPATION</th>
<th>MEDIAN WAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multimedia Designer</td>
<td>$70,420</td>
</tr>
<tr>
<td>Commercial &amp; Industrial Designer</td>
<td>$75,650</td>
</tr>
<tr>
<td>Graphic Designer</td>
<td>$51,730</td>
</tr>
<tr>
<td>Desktop Publishers</td>
<td>$51,090</td>
</tr>
</tbody>
</table>

IS THIS CAREER RIGHT FOR YOU?

- Do you have a strong interest in art?
- Do you enjoy being creative and exploring the use of different types of media?
- Do you have the ability and interest to apply technology to your creative endeavors?
- Do you have interest in the fields of advertising and marketing?
- Are you a good planner and organizer?

INDUSTRY CERTIFICATIONS:

OSHA-10
Employability: Interviewing Skills
COMPUTER NETWORKING & DIGITAL FORENSICS
CIP: 11.0901

PROGRAM OVERVIEW
The Computer Networking & Digital Forensics curriculum centers on networks and the computer devices that comprise a typical network, including building, maintaining, and supporting computer network systems forming the foundation for beginning a career in Information Technology. With a solid understanding of network fundamentals, a variety of careers related to information technology are possible. The industry career focus in the program is on desktop support, network engineering, digital forensics, and IT security. Industry certifications align with CompTIA including IT Fundamentals, A+, Network+ and Security+. Additionally, there is a copper-based certification. Computer based training certifications also include routing and switching. Upon achieving the skills and certifications offered in the program, students are competitive for entry level employment in Information Technology as well as many post-secondary colleges or universities.
INSIDE THE INDUSTRY

<table>
<thead>
<tr>
<th>OCCUPATION</th>
<th>LOCAL WAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Security Analysis</td>
<td>$103,350</td>
</tr>
<tr>
<td>Web Developers</td>
<td>$70,240</td>
</tr>
<tr>
<td>Network &amp; Computer Systems Administrator</td>
<td>$87,520</td>
</tr>
<tr>
<td>Computer Network Architects</td>
<td>$115,180</td>
</tr>
<tr>
<td>Computer Network Specialist</td>
<td>$65,730</td>
</tr>
</tbody>
</table>

IS THIS CAREER RIGHT FOR YOU?

- Do you have the ability and interest to work with technology?
- Are you logical and curious about computers?
- Are you organized and attentive to details?
- Do you have an interest in developing and maintaining computer networks?

INDUSTRY CERTIFICATIONS:

- OSHA-10
- Employability: Interviewing Skills
- TestOut IT Fundamentals Pro
- TestOut Client Pro
- CompTIA IT Fundamentals
- TestOut PC Pro
- CompTIA A+
- TestOut Network Pro
- CompTIA Network+
- TestOut Security Pro
- CompTIA Security+
- TestOut Routing and Switching Pro
- Cisco Certified Entry Network Technician (CCENT)
- Network Cabling Specialist
- AccessData Certified Examiner (ACE)
ENGINEERING & ROBOTICS
CIP: 15.9999

PROGRAM OVERVIEW

This program prepares students for high-demand, life sustaining, STEM careers in the engineering and advanced manufacturing fields. Students have the opportunity to take an invention from concept to design to production by utilizing hi-tech equipment such as 3D printers and Computer Numerical Control (CNC) machines. This comprehensive curriculum covers topics such as engineering philosophy, principles, ethics, safety and quality control. Students learn a variety of topics, including computer-aided design, electronics, hydraulics, mechanical drawing, robotics, and precision measurement.

Students in the Engineering Technologies program have the opportunity to complete STEM- enhanced curriculum through five Project Lead The Way (PLTW) modules. Students have the opportunity to choose from Introduction to Engineering, Principles of Engineering, Computer Integrated Manufacturing, Digital Electronics, Civil Engineering & Architecture. Students are introduced to problem solving, learning about engineering principles, teamwork, and Computer-Aided Design (CAD).
INSIDE THE INDUSTRY

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<thead>
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<th>OCCUPATION</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Electro-Mechanical Technicians</td>
<td>$57,300</td>
</tr>
<tr>
<td>Engineering Technicians</td>
<td>$68,470</td>
</tr>
<tr>
<td>Robotics Technicians</td>
<td>$50,000</td>
</tr>
<tr>
<td>Robotics Operators</td>
<td>$31,671</td>
</tr>
<tr>
<td>Electrical Engineer</td>
<td>$91,710</td>
</tr>
</tbody>
</table>

IS THIS CAREER RIGHT FOR YOU?

- Are you logical and analytical?
- Can you solve problems?
- Do you enjoy programming robots?
- Do you prefer project based learning or activities?
- Do you practice critical thinking skills?

INDUSTRY CERTIFICATIONS:

OSHA-10
Employability: Interviewing Skills
MANAGEMENT INFORMATION SYSTEMS (MIS)
CIP: 52.1201

PROGRAM OVERVIEW

Management Information Systems is a series of methods of collecting, compiling, and analyzing large quantities of data to satisfy our society’s ever-increasing need for information. With increasing frequency it is apparent that an understanding of technology is a necessary part of general education for students who live and work in our technological society.

Students acquire the skills to analyze, design, implement, test, and document an application solution. The students utilize a state-of-the-art network computer system and its associated peripheral equipment to work on live problems, utilizing business software and object-oriented integrated development environments. Concepts delivered provide the basis of understanding in the area of computer programming and are applicable to business applications, mobile applications, and video gaming.

Students will create a relational database, receive instruction in a variety of computer programming languages including writing, testing and debugging code; writing related system user documentation; demonstrating an understanding of core computer concepts to include the internet and the basic functions of business desktop applications; and analyzing common hardware, software and network processes. Students will receive instruction in business ethics and law, economics, office procedures and communications. Students will learn office safety, computer fundamentals, database administration and computer maintenance/troubleshooting.
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<table>
<thead>
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<th>OCCUPATION</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Computer User Support Specialist</td>
<td>$51,160</td>
</tr>
<tr>
<td>Electrical &amp; Electronic Engineering Technicians</td>
<td>$52,810</td>
</tr>
<tr>
<td>Search Engine Optimization Specialist</td>
<td>$51,965</td>
</tr>
<tr>
<td>Computer Programmer</td>
<td>$84,880</td>
</tr>
</tbody>
</table>

### IS THIS CAREER RIGHT FOR YOU?

- Do you have the ability and interest to work with computer hardware and software?
- Do you have the ability and interest to work with and manage data?
- Would you like to learn the skills needed to operate and maintain computer systems?
- Could you see yourself being a software developer?

### INDUSTRY CERTIFICATIONS:

- OSHA-10
- Employability: Interviewing Skills