



Department of Teaching & Learning
Parent/Student Course Information

Communications Technology Program
Photography and Printing
(TE 8415)
Grades 9 - 12
One-half Credit, One Semester

Counselors are available to assist parents and students with course selections and career planning. Parents may arrange to meet with the counselor by calling the school's guidance department.

COURSE DESCRIPTION

The courses in engineering and technology provide opportunities for students to acquire skills and knowledge necessary for technological literacy, entry-level careers, and lifelong learning. Students learn Virginia's 21 Workplace Readiness Skills within the content area. Those who are completing a two-year sequence have the opportunity to verify their knowledge of the workplace readiness skills through an industry assessment. Students study the processes and skills used in black and white photography and photo screen printing. Activities emphasize the use of the 35mm camera, digital photography, editing software, studio lighting, film development, and screen printing. This course is designed for students who are interested in careers in publishing, photography, multi-media communications and advertising.

CERTIFICATION

Students successfully completing the Communications Technology Program of Study will be preparing for the Adobe Photoshop CS5 certification and the NOCTI Digital Design Industry Credential.

STUDENT ORGANIZATION

Technology Student Association (TSA) is a co-curricular organization for all students enrolled in engineering and technology courses. Students are encouraged to be active members of their youth organization to develop leadership and teamwork skills and to receive recognition for their participation in local, regional, state and national activities.

PREREQUISITE

None

OPTIONS FOR NEXT COURSE

Communications Technology

REQUIRED STUDENT TEXTBOOK

Exploring Photography 6th edition

COMPETENCIES FOR PHOTOGRAPHY AND PRINTING

Demonstrating Workplace Readiness Skills: Personal Qualities and People Skills

- 1 Demonstrate positive work ethic.
- 2 Demonstrate integrity.
- 3 Demonstrate teamwork skills.
- 4 Demonstrate self-representation skills.
- 5 Demonstrate diversity awareness.
- 6 Demonstrate conflict-resolution skills.
- 7 Demonstrate creativity and resourcefulness.

Demonstrating Workplace Readiness Skills: Professional Knowledge and Skills

- 8 Demonstrate effective speaking and listening skills.
- 9 Demonstrate effective reading and writing skills.
- 10 Demonstrate critical-thinking and problem-solving skills.
- 11 Demonstrate healthy behaviors and safety skills.
- 12 Demonstrate an understanding of workplace organizations, systems and climates.
- 13 Demonstrate lifelong-learning skills.
- 14 Demonstrate job-acquisition and advancement skills.
- 15 Demonstrate time-, task- and resource-management skills.
- 16 Demonstrate job-specific mathematics skills.
- 17 Demonstrate customer-service skills.

Demonstrating Workplace Readiness Skills: Technology Knowledge and Skills

- 18 Demonstrate proficiency with technologies common to a specific occupation.
- 19 Demonstrate information technology skills.
- 20 Demonstrate an understanding of Internet use and security issues.
- 21 Demonstrate telecommunications skills.

Examining All Aspects of an Industry

- 22 Examine aspects of planning within an industry/organization.
- 23 Examine aspects of management within an industry/organization.
- 24 Examine aspects of financial responsibility within an industry/organization.
- 25 Examine technical and production skills required of workers within an industry/organization.
- 26 Examine principles of technology that underlie an industry/organization.
- 27 Examine labor issues related to an industry/organization.
- 28 Examine community issues related to an industry/organization.
- 29 Examine health, safety and environmental issues related to an industry/organization.

Addressing Elements of Student Life

- 30 Identify the purposes and goals of the student organization.
- 31 Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult.
- 32 Demonstrate leadership skills through participation in student organization activities, such as meetings, programs and projects.
- 33 Identify Internet safety issues and procedures for complying with acceptable use standards.

Introducing Communication Systems

- 34 Define *communication*.
- 35 Explain ethics as they relate to communication systems.
- 36 Identify technology used in communication.

- 37 Identify types of communication.
- 38 Define *digital communication technology*.
- 39 Research the history and development of various types of communication systems.
- 40 Analyze the impact of communication systems.
- 41 Analyze communication systems problems/challenges.
- 42 Describe elements of design.
- 43 Describe principles of design.
- 44 Explain the design process.

Exploring Digital Visualization

- 45 Identify the components of a storyboard.
- 46 Create a storyboard for a simple animation.
- 47 Generate a simple, two-dimensional animation.
- 48 Generate a simple, digital, three-dimensional model.
- 49 Modify a simple, digital, three-dimensional model.
- 50 Animate a simple, digital, three-dimensional model.

Exploring Imaging Technology

- 51 Identify various systems for capturing and transmitting images.
- 52 Examine the theories and properties of light.
- 53 Explore photographic and other imaging media.
- 54 Incorporate composition elements.
- 55 Capture a digital image.
- 56 Manipulate digital images.
- 57 Mount a photograph.

Examining Graphic Production

- 58 Explain graphic production.
- 59 Describe the different methods of graphic production.
- 60 Prepare images for output.
- 61 Identify the different types of coding used to create data communication systems.
- 62 Identify basic concepts of developing a web page.
- 63 Create a web page.
- 64 Describe channels for delivering web communication.
- 65 Identify elements of typography.
- 66 Produce a finished graphic product.

Examining Video and Media Technology

- 67 Describe the concepts of audio and video communication.
- 68 Describe audio and video production equipment and terminology.
- 69 Describe the production process.
- 70 Produce a video or an animation, using the production process.
- 71 Output video to analog or digital format.

Exploring Communications Careers and Advancement

- 72 Describe careers related to communication systems.
- 73 Create a portfolio including work from Communication Systems.

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Produced by the Department of Media and Communications for the
Department of Teaching and Learning.
For further information please call (757) 263-1070.

Notice of Non-Discrimination Policy

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To seek resolution of grievances resulting from alleged discrimination or to report violations of these policies, please contact the Title VI/Title IX Coordinator/Director of Student Leadership at (757) 263-2020, 1413 Laskin Road, Virginia Beach, Virginia, 23451 (for student complaints) or the Section 504/ADA Coordinator/Chief Human Resources Officer at (757) 263-1133, 2512 George Mason Drive, Municipal Center, Building 6, Virginia Beach, Virginia, 23456 (for employees or other citizens). Concerns about the application of Section 504 of the Rehabilitation Act should be addressed to the Section 504 Coordinator/ Executive Director of Student Support Services at (757) 263-1980,

2512 George Mason Drive, Virginia Beach, Virginia, 23456 or the Section 504 Coordinator at the student's school. For students who are eligible or suspected of being eligible for special education or related services under IDEA, please contact the Office of Programs for Exceptional Children at (757) 263-2400, Laskin Road Annex, 1413 Laskin Road, Virginia Beach, Virginia, 23451.

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(Revised August 2018)