

TECHNOLOGY APPLICATIONS

Technology Application is an academic curriculum area specified in TEC 28.002. This curriculum is separate from Career & Technology and has separate PEIMS numbers.

T101/T102 COMPUTER SCIENCE I

(TACS1)

Peims #03580200

Recommended Grade Placement: 9-12

1 credit - state

Weight: Reference District Policy EIC Local as weights are dependent upon high school year entry date.

Prerequisite: Algebra I.

In this two semester course students learn to write computer programs in Java to explore topics in algebra, geometry, number theory, probability, and statistics.

Approval for one credit of Technology Applications/meets the Graduation Requirement.

T105/T106 COMPUTER SCIENCE I PRE-AP

(TACS1)

Peims #03580200

Recommended Grade Placement: 9-12

1 credit - state

Weight: Reference District Policy EIC Local as weights are dependent upon high school year entry date.

Prerequisite: Algebra I

In this two semester course, students learn to write computer programs in Java to explore topics in algebra, geometry, number theory, probability, and statistics as well as other “real life” applications. Students will learn to make informed decisions about technologies and their applications. The development of computer programs to solve problems is a skill fundamental to the study of computer science, and a large part of the course is built around the development of computer programs or parts of programs that correctly solve a given problem. The course also emphasizes the design issues that make programs understandable, adaptable, and, when appropriate, reusable. They will also learn the identification of task requirements, the plan for using search strategies and the use of technology to access, analyze, and evaluate the acquired information. **Approval for one credit of Technology Applications/meets the Graduation Requirement.**

T103/T104 COMPUTER SCIENCE II

(TACS2)

Peims #03580300

Recommended Grade Placement: 9-12

1 credit - state

Prerequisite: Algebra I, Computer Science I.

In this two semester course, students learn to write computer programs using Java to explore topics in algebra, geometry, number theory, probability, and statistics.

Approval for one credit of Technology Applications/meets the Graduation Requirement.

T201/T202 COMPUTER SCIENCE II PRE-AP

(TACS2)

Peims #03580300

Recommended Grade Placement: 9-12

1 credit - state

Weight: Reference District Policy EIC Local as weights are dependent upon high school year entry date.

Prerequisite: Algebra I, Computer Science I

In this two semester course, students learn to write computer programs using Java to explore topics in algebra, geometry, number theory, probability, and statistics.

Approval for one credit of Technology Applications/meets the Graduation Requirement.

T401/T402 AP COMPUTER SCIENCE A – MATH

(APTASCAM)

Peims # A3580110

Recommended Grade Placement: 10-12

1 credit – state

Weight: Reference District Policy EIC Local as weights are dependent upon high school year entry date.

Prerequisite: Pre-AP Computer Science (T201).

This two semester AP course in computer science is much like those offered to computer science majors in colleges with the additions of Data Structures. Students will consolidate the knowledge of algorithm design and programming in Java that was gained in Pre-AP Computer Science I (T105/T106). The

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emphasis will be on the design and implementation of larger programs using Java. Students will begin a detailed study of data structures and data abstraction. Students will also use mathematical tools in algorithm analysis.

Approval for one credit of Technology Applications/meets the Graduation Requirement.

T301/T302 DIGITAL DESIGN & MEDIA PRODUCTION (TADGMMP)

Peims #03580400 Recommended Grade Placement: 9-12 1 credit - state

Prerequisite:

Students will use the skills of electronic design, editing, and production of a product using a variety of hardware and software tools. This project-based course focuses on real-world audiences as customers. Students will learn to use a collection of software tools and design techniques to create a variety of formatted products.

Approval for one credit of Technology Applications/meets the Graduation Requirement.

T307/T308 DIGITAL ART AND ANIMATION (TADGAA)

Peims #03580500 Recommended Grade Placement: 9-12 1 credit - state

Prerequisite:

The student will use computer software programs, to produce and edit digital designs as well as incorporating design principles when capturing digital images with a scanner and camera. Students will work with color, resolution, and halftones as well as other image enhancing strategies including outlining, cropping, digital manipulation, color correction, masking, and the use of channels paths, background, and layers. Students will use both 2-D and 3-D animation to produce products in this course.

Approval for one credit of Technology Applications/meets the Graduation Requirement.

T309/T310 INDEPENDENT STUDY IN TECHNOLOGY APPLICATION I (TAIND1)

Peims #03580900 Recommended Grade Placement: 9-12 1 credit - state

Prerequisite: One or more courses in Technology Applications.

Approval for one credit of Technology Applications/meets the Graduation Requirement.

T311/T312 INDEPENDENT STUDY IN TECHNOLOGY APPLICATIONS II (TAIND2)

Peims #03581000 Recommended Grade Placement: 9-12 1 credit - state

Prerequisite: One or more courses in Technology Applications.

Approval for one credit of Technology Applications/meets the Graduation Requirement.

T317/T318 INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY IB (IBITGSSL)

Peims #I3580400 Recommended Grade Placement: 11-12 1 credit - state

Prerequisite: campus specific/ IB guidelines

This two year course is the study and evaluation of the impact of information technology on individuals and society. The aim of the course is to develop students' understanding of the advantages and disadvantages of new technologies by analyzing and evaluating the social significance and ethical considerations arising from the widespread use of information technology at a local and global level. During the first year students will study topics related to IT systems, complete software assignments, and produce a portfolio of three essays related to current events in IT. This course prepares students for the required IB ITGS examinations.

T3190/T320 INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY HL (IB) (IBITGSHL)

Peims #I3580500 Recommended Grade Placement: 11-12 1 credit - state

Prerequisites: Campus specific/IB guidelines

This two year course is the study and evaluation of the impact of information technology on individuals and society. This course prepares students for the required IB ITGS examinations.