COMPUTER-BASED PROJECTS – 9180

Course Scope:

      This one-year course introduces students to the use of computer applications in the production of video, audio, graphic, and digital communication projects. Students utilize a variety of technologies including webcasting, virtual learning, document collaboration, web design, and digital portfolios within the project-based learning model. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to society. This course fulfills the one-half computer credit and one half of an elective credit or one elective credit required for high school graduation.

Course Goals:

1.   To create word processing, spreadsheet, database, multimedia, and desktop publishing digital projects utilizing various hardware and software.
[NS: BE 11.6; CT 2.12.5, 3.12.6, 4.12.2; IT 5.1]

2.   To demonstrate skill using external devices to create digital computer projects.
[NS: CT 4.12.1, 4.12.3, 5.12.3, 5.12.3]

3.   To research information resources using the Internet and Intranet.
[NS: CT 2.12.7, 3.12.1, 3.12.3, 4.12.3]

4.   To analyze a variety of problem-solving approaches to address the ethical issues created by technology. [NS: CT 1.12.1, 3.12.6, 4.12.2, 5.12.1, 6.12.1, 6.12.2]

5.   To develop skill using digital media and the Internet to publish student work.
[NS: CT 2.12.7, 3.12.2, 3.12.4, 3.12.5, 6.12.3]

6.   To practice the proper use of email and web authoring as communication tools.
[NS: CT 2.12.1, 2.12.7, 4.12.1, 5.12.1, 5.12.3]

7.   To model cooperation, responsibility, creativity, collaboration, and initiative while working with others to complete a project. [NS: CT 1.12.1, 3.12.4, 5.12.2, 6.12.3]

8.   To critique peer and personal projects in a positive, constructive manner.
[NS: CT 1.12.1, 3.12.7, 6.12.4]

9.   To model ergonomic practices while using a computer. [NS: CT 2.0]

10.   To refine editing and proofreading skills. [NS: BE 13.2]

11.   To research career and educational opportunities related to the computer industry.
[NS: BE 13.6]

It is recommended that non-traditional careers be encouraged and that gender-neutral teaching materials be utilized. The emphasis on hands-on activities allows for a wide range of ability levels. Equipment, tools, and machinery should be adapted for use by students with physical handicaps and the methods of their use should be adjusted to accommodate these special needs. Additionally, instructors are encouraged to use supplemental textbooks and audiovisuals illustrating special populations.

NOTE: Before presenting lessons on controversial issues, teachers should become familiar with Clark County School District Regulation 6124.2 dealing with controversial issues.

BE = Business Education
CT = Computer Technology
IT = Information Technology

Approved 1995, revised May 2009.

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