



Information Technology Standards Revision Frequently Asked Questions

Question	Answer
Will the standards dictate how a teacher is to teach a specific standard?	The standards are written to provide teachers with better direction as to the content and expectations of what the student should know and be able to do. This will allow the teacher to use the best method of instruction to enhance the student's learning experience.
Will a student need to complete all four levels of the program of study to meet the elective focus required for graduation?	No. Students will only need to complete three courses within a program of study or career cluster to complete their elective focuses and become CTE concentrators. Specific elective focus areas are selected by local boards of education. We do, however, encourage students to complete all four courses to ensure they are best prepared for postsecondary and career opportunities.
How will these standards help prepare my students to function in society and in the workforce?	<p>Data gathered from business and industry illustrate that the skills and knowledge required for success in the workforce are identical to those required for success in postsecondary. Industry trends show the majority of current and future occupations will require some form of postsecondary training. It is our responsibility to prepare all students with the skills they need to be successful. These standards also ensure that students develop skills to be productive members of society by becoming more informed individuals.</p> <p>Industry certification options are also available for students who complete programs of study in the Information Technology career cluster. For example, upon completion of the Networking Systems program of study, students can pursue the CompTIA A+ certification.</p>

<p>There are a lot of references to general education standards in the new standards. Are we expected to teach general education content in addition to our CTE content?</p>	<p>These standards reflect general education standards where they have direct application to CTE content. Teachers are not expected to teach general education standards; rather, they should be able to show the application of these concepts in a contextual way through the instruction of their CTE content.</p>
<p>What if I am concerned that my students are not able to do this level of work yet?</p>	<p>Standards are structured to develop conceptual understandings of both technical and literacy skills in a logical progression. All students can meet postsecondary and career readiness expectations embedded in these standards with the correct supports.</p>
<p>Is there room in a high school student's schedule to complete a four-course program of study?</p>	<p>Most LEAs' master schedules provide opportunities for students to receive elective credits in addition to the minimum credits required for graduation by State Board of Education policy. Most programs of study include at least one course required for graduation as part of the logical sequence, allowing a student to fulfill graduation requirements while progressing through a program of study. We strongly encourage students, parents, and administrators to select a student's elective focus during his/her freshman year.</p>
<p>I noticed that the Web Design program of study looks different. I do not recognize the course names. What happened to Web I, II, and III?</p>	<p>The Web Design program of study has been revised to align to the content that is needed for students to be successful in the web design and development industry. As a result, the names of the courses have been changed. For example, Web Page Design I: Foundations is now titled Web Design Foundations and is a Level 2 course, as it focuses primarily on the elements of design. Web Page Design II: Site Designer is now Web Site Development and is a Level 3 course because it applies the web design process from the previous course in order to develop web sites. Finally, Web Page Design III: eCommerce has been replaced by a new capstone course, Web Design Practicum. Content related to eCommerce has not disappeared; rather, it has been folded into all the courses across the Web Design program of study.</p>

<p>Now that the Web Design program of study has been revised, who can teach these courses? What certifications are required to teach these courses?</p>	<p>The following endorsements, along with CIW certification, are required to teach web design courses:</p> <p>037, 041, 055, 056, 057, 070, (042 and 043), (042 and 044), (042 and 045), (042 and 046), (042 and 047), (042 and 077), (042 and 078), (042 and 079), (043 and 044), (043 and 045), (043 and 046), (043 and 047), (043 and 077), (043 and 078), (043 and 079), (044 and 045), (044 and 046), (044 and 047), (044 and 077), (044 and 078), (044 and 079), (045 and 046), (045 and 047), (045 and 077), (045 and 078), (045 and 079), (046 and 047), (046 and 077), (046 and 078), (046 and 079), (046 and 047), (046 and 077), (047 and 079), (047 and 077), (047 and 078), (077 and 078), (077 and 079), (078 and 079), 203, 204, 230, 231, 232, 233, 311, 434, 435, 436, 470, 475, 476, 477, 516, 519, 582, 583, 595.</p> <p>Along with the endorsement requirements, at least one of the following CIW certifications is required to teach the Web Site Development and Web Design Practicum courses:</p> <ul style="list-style-type: none"> • CIW Web Foundations Associate • CIW Web Site Development Associate • CIW Web Design Specialist
<p>I noticed that Computer Applications is not listed as the level 1 course in the Web Design program of study. My students really need to complete Computer Applications prior to taking Web Design Foundations. Can I teach it instead of Information Technology Foundations?</p>	<p>Information Technology Foundations (ITF) is now the first level course for all programs of study in the Information Technology (IT) cluster. Computer Applications is not a substitute for the core knowledge acquired in this course. The primary reason for offering Information Technology Foundations as the Level 1 course is to introduce students to multiple areas of the information technology industry, so that they can make an informed decision when selecting an IT program of study to pursue.</p> <p>This shift does not impact eligibility to teach ITF. Teachers endorsed to teach Networking Systems, Web Design, and Programming and Software Development will be able to teach the Information Technology Foundations course. Because students taking ITF are required to meet standards in two focus areas (i.e., Networking Systems, Web Design, and Programming & Software Development) in addition to the core content, teachers may tailor ITF content.</p>

<p>I cannot find the Game Programming course in the Information Technology career cluster. Where is it?</p>	<p>The standards in the existing Game Programming course, as currently written, are not suitable for a capstone experience within the Programming and Software Development program of study. The Division revised programs of study in order to build in culminating experiences at the third and fourth levels of study, such as practicum courses and work-based learning, which are intended to provide opportunities to apply the skills learned in previous courses. For this reason, a practicum course has been designed for the fourth level in the Programming and Software Development program of study.</p> <p>The practicum course standards are written to give teachers flexibility over content delivery, such that a variety of emerging technologies, including game programming, can be taught as content to meet the course standards. In addition, game programming content can be incorporated into the curriculum to meet the course standards of the Programming and Logic I course and the Programming and Logic II course.</p>
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