Subject	§126 Technology Applications			
Course Title	§126.36. Digital Forensics (One-Half to One Credit), Beginning with School Year 2012-2013			
TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(a) General requirements. Students shall be awarded one-half to one credit for successful completion of this course. The prerequisite for this course is proficiency in the knowledge and skills relating to Technology Applications, Grades 6-8. This course is recommended for students in Grades 9-12.				
(b) Introduction.				
(1) The technology applications curriculum has six strands based on the National Educational Technology Standards for Students (NETS•S) and performance indicators developed by the International Society for Technology in Education (ISTE): creativity and innovation; communication and collaboration; research and information fluency; critical thinking, problem solving, and decision making; digital citizenship; and technology operations and concepts. (2) Digital Forensics will foster students' creativity and innovation by presenting opportunities to investigate simulations and case studies of crimes, reconstructing computer security incidents, troubleshooting operational problems, and recovering from accidental system damage. Students will collaborate to develop forensic techniques to assist with computer security incident response. Students will learn methods to identify, collect, examine, and analyze data while preserving the integrity of the information and maintaining a strict chain of custody for data. Students will solve problems as they study the application of science to the law. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of computing and networking systems that transmit or store electronic data. (3) Statements that contain the word "including" reference content that must be mastered, while those containing the phrase "such as" are intended as possible illustrative examples.				
(c) Knowledge and Skills.				
(1) Creativity and innovation. The student will develop products and generates new understanding by extending existing knowledge. The student is expected to:	(A) explain the need for digital forensics, staffing requirements, and team interactions	(i) explain the need for digital forensics		
(1) Creativity and innovation. The student will develop products and generates new understanding by extending existing knowledge. The student is expected to:	(A) explain the need for digital forensics, staffing requirements, and team interactions	(ii) explain the need for staffing requirements		

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TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(1) Creativity and innovation. The student will develop products and generates new understanding by extending existing knowledge. The student is expected to:	(A) explain the need for digital forensics, staffing requirements, and team interactions	(iii) explain the need for team interactions		
(1) Creativity and innovation. The student will develop products and generates new understanding by extending existing knowledge. The student is expected to:	(B) develop policies to define staff roles and responsibilities	(i) develop policies to define staff roles		
(1) Creativity and innovation. The student will develop products and generates new understanding by extending existing knowledge. The student is expected to:	(B) develop policies to define staff roles and responsibilities	(ii) develop policies to define staff responsibilities		
(1) Creativity and innovation. The student will develop products and generates new understanding by extending existing knowledge. The student is expected to:	(C) develop guidelines, procedures, and recommendations for digital forensics tool use	(i) develop guidelines for digital forensics tool use		
(1) Creativity and innovation. The student will develop products and generates new understanding by extending existing knowledge. The student is expected to:	(C) develop guidelines, procedures, and recommendations for digital forensics tool use	(ii) develop procedures for digital forensics tool use		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(1) Creativity and innovation. The student will develop products and generates new understanding by extending existing knowledge. The student is expected to:	(C) develop guidelines, procedures, and recommendations for digital forensics tool use	(iii) develop recommendations for digital forensics tool use		
(1) Creativity and innovation. The student will develop products and generates new understanding by extending existing knowledge. The student is expected to:	(D) investigate simulations and case studies of crimes to reconstruct computer security incidents	(i) investigate simulations of crimes to reconstruct computer security incidents		
(1) Creativity and innovation. The student will develop products and generates new understanding by extending existing knowledge. The student is expected to:	(D) investigate simulations and case studies of crimes to reconstruct computer security incidents	(ii) investigate case studies of crimes to reconstruct computer security incidents		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her learning and the learning of others. The student is expected to:	(A) describe the characteristics and behaviors of a given system	(i) describe the characteristics of a given system		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her learning and the learning of others. The student is expected to:	(A) describe the characteristics and behaviors of a given system	(ii) describe the behaviors of a given system		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her learning and the learning of others. The student is expected to:	(B) justify and describe the impact of selecting a given system	(i) justify the impact of selecting a given system		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her learning and the learning of others. The student is expected to:	(B) justify and describe the impact of selecting a given system	(ii) justify and describe the impact of selecting a given system		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her learning and the learning of others. The student is expected to:	(C) apply effective teamwork practices			
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her learning and the learning of others. The student is expected to:	(D) collaborate with multiple participants			

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her learning and the learning of others. The student is expected to:	(E) document use, functionality, and implementation	(i) document use		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her learning and the learning of others. The student is expected to:	(E) document use, functionality, and implementation	(ii) document functionality		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her learning and the learning of others. The student is expected to:	(E) document use, functionality, and implementation	(iii) document implementation		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her learning and the learning of others. The student is expected to:	(F) seek and respond to advice from peers and professionals	(i) seek advice from peers		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her learning and the learning of others. The student is expected to:	(F) seek and respond to advice from peers and professionals	(ii) seek advice from professionals		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her learning and the learning of others. The student is expected to:	(F) seek and respond to advice from peers and professionals	(iii) respond to advice from peers		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her learning and the learning of others. The student is expected to:	(F) seek and respond to advice from peers and professionals	(iv) respond to advice from professionals		
(2) Communication and collaboration. The student communicates and collaborates with peers to contribute to his or her learning and the learning of others. The student is expected to:	(G) describe considerations required for incident response			

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TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(A) identify possible sources of data			
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(B) acquire data			
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(C) analyze and report data collected	(i) analyze data collected		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(C) analyze and report data collected	(ii) report data collected		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(D) collect files by copying files from media while maintaining data file integrity			

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TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(E) examine data files by locating files, extracting data, and using a digital forensic toolkit	(i) examine data files by locating files		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(E) examine data files by locating files, extracting data, and using a digital forensic toolkit	(ii) examine data files by extracting data		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(E) examine data files by locating files, extracting data, and using a digital forensic toolkit	(iii) examine data files by using a digital forensic toolkit		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(F) examine and analyze operating system data	(i) examine operating system data		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(F) examine and analyze operating system data	(ii) analyze operating system data		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(G) collect volatile and non-volatile operating system data	(i) collect volatile operating system data		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(G) collect volatile and non-volatile operating system data	(ii) collect non-volatile operating system data		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(H) collect, examine, and analyze application data	(i) collect application data		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(H) collect, examine, and analyze application data	(ii) examine application data		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(H) collect, examine, and analyze application data	(iii) analyze application data		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(I) use traffic data sources, including firewalls and routers, packet sniffers and protocol analyzers, intrusion detection systems, remote access, security event management software, and network forensic analysis tools	(i) use traffic data sources including firewalls		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(I) use traffic data sources, including firewalls and routers, packet sniffers and protocol analyzers, intrusion detection systems, remote access, security event management software, and network forensic analysis tools	(ii) use traffic data sources including routers		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(I) use traffic data sources, including firewalls and routers, packet sniffers and protocol analyzers, intrusion detection systems, remote access, security event management software, and network forensic analysis tools	(iii) use traffic data sources including packet sniffers		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(I) use traffic data sources, including firewalls and routers, packet sniffers and protocol analyzers, intrusion detection systems, remote access, security event management software, and network forensic analysis tools	(iv) use traffic data sources including protocol analyzers		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(I) use traffic data sources, including firewalls and routers, packet sniffers and protocol analyzers, intrusion detection systems, remote access, security event management software, and network forensic analysis tools	(v) use traffic data sources including intrusion detection systems		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(I) use traffic data sources, including firewalls and routers, packet sniffers and protocol analyzers, intrusion detection systems, remote access, security event management software, and network forensic analysis tools	(vi) use traffic data sources including remote access		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(I) use traffic data sources, including firewalls and routers, packet sniffers and protocol analyzers, intrusion detection systems, remote access, security event management software, and network forensic analysis tools	(vii) use traffic data sources including security event management software		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(I) use traffic data sources, including firewalls and routers, packet sniffers and protocol analyzers, intrusion detection systems, remote access, security event management software, and network forensic analysis tools	(viii) use traffic data sources including network forensic analysis tools		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(J) describe how a file scan can be accessed and modified	(i) describe how a file scan can be accessed		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(J) describe how a file scan can be accessed and modified	(ii) describe how a file scan can be modified		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(K) collect, examine, and analyze data from multiple sources	(i) collect data from multiple sources		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(K) collect, examine, and analyze data from multiple sources	(ii) examine data from multiple sources		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(K) collect, examine, and analyze data from multiple sources	(iii) analyze data from multiple sources		

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TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(L) provide examples of how multiple data sources can be used during digital forensics, including investigating worm infections, viruses, and email threats	(i) provide examples of how multiple data sources can be used during digital forensics, including investigating worm infections		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(L) provide examples of how multiple data sources can be used during digital forensics, including investigating worm infections, viruses, and email threats	(ii) provide examples of how multiple data sources can be used during digital forensics, including investigating viruses		
(3) Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:	(L) provide examples of how multiple data sources can be used during digital forensics, including investigating worm infections, viruses, and email threats	(iii) provide examples of how multiple data sources can be used during digital forensics, including investigating email threats		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(A) resolve information conflicts and validate information through data acquisition, research, and comparison	(i) resolve information conflicts through data acquisition		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(A) resolve information conflicts and validate information through data acquisition, research, and comparison	(ii) resolve information conflicts through research		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(A) resolve information conflicts and validate information through data acquisition, research, and comparison	(iii) resolve information conflicts through comparison		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(A) resolve information conflicts and validate information through data acquisition, research, and comparison	(iv) validate information conflicts through data acquisition		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(A) resolve information conflicts and validate information through data acquisition, research, and comparison	(v) validate information conflicts through research		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(A) resolve information conflicts and validate information through data acquisition, research, and comparison	(vi) validate information conflicts through comparison		

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(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(B) examine and analyze network traffic data, including identifying events of interest, examining data sources, and identifying attacks	(i) examine network traffic data including identifying events of interest		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(B) examine and analyze network traffic data, including identifying events of interest, examining data sources, and identifying attacks	(ii) examine network traffic data, including examining data sources		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(B) examine and analyze network traffic data, including identifying events of interest, examining data sources, and identifying attacks	(iii) examine network traffic data, including identifying attacks		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(B) examine and analyze network traffic data, including identifying events of interest, examining data sources, and identifying attacks	(iv) analyze network traffic data, including identifying events of interest		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(B) examine and analyze network traffic data, including identifying events of interest, examining data sources, and identifying attacks	(v) analyze network traffic data, including examining data sources		
(4) Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:	(B) examine and analyze network traffic data, including identifying events of interest, examining data sources, and identifying attacks	(vi) analyze network traffic data, including identifying attacks		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(A) identify and use digital information appropriately	(i) identify digital information appropriately		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(A) identify and use digital information appropriately	(ii) use digital information appropriately		

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(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(B) identify and use appropriate methods for citing sources	(i) identify appropriate methods for citing sources		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(B) identify and use appropriate methods for citing sources	(ii) use appropriate methods for citing sources		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(C) identify and discuss intellectual property laws, issues, and use	(i) identify intellectual property laws		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(C) identify and discuss intellectual property laws, issues, and use	(ii) identify intellectual property issues		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(C) identify and discuss intellectual property laws, issues, and use	(iii) identify intellectual property use		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(C) identify and discuss intellectual property laws, issues, and use	(iv) discuss intellectual property laws		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(C) identify and discuss intellectual property laws, issues, and use	(v) discuss intellectual property issues		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(C) identify and discuss intellectual property laws, issues, and use	(vi) discuss intellectual property use		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(D) identify intellectual property stakeholders and their needs and perspectives	(i) identify intellectual property stakeholders		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(D) identify intellectual property stakeholders and their needs and perspectives	(ii) identify intellectual property [stakeholders'] needs		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(D) identify intellectual property stakeholders and their needs and perspectives	(iii) identify intellectual property [stakeholders'] perspectives		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(E) identify and describe the kinds of crimes investigated by digital forensics specialists	(i) identify the kinds of crimes investigated by digital forensics specialists		

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(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(E) identify and describe the kinds of crimes investigated by digital forensics specialists	(ii) describe the kinds of crimes investigated by digital forensics specialists		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(F) identify legal, illegal, ethical, and unethical aspects of information gathering	(i) identify legal aspects of information gathering		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(F) identify legal, illegal, ethical, and unethical aspects of information gathering	(ii) identify illegal aspects of information gathering		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(F) identify legal, illegal, ethical, and unethical aspects of information gathering	(iii) identify ethical aspects of information gathering		

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(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(F) identify legal, illegal, ethical, and unethical aspects of information gathering	(iv) identify unethical aspects of information gathering		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(G) compare and contrast legal, illegal, ethical, and unethical information gathering methods and identify possible gray areas	(i) compare legal, illegal, ethical, and unethical information gathering methods		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(G) compare and contrast legal, illegal, ethical, and unethical information gathering methods and identify possible gray areas	(ii) contrast legal, illegal, ethical, and unethical information gathering methods		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(G) compare and contrast legal, illegal, ethical, and unethical information gathering methods and identify possible gray areas	(iii) identify possible gray areas		

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(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(H) identify and describe ways in which developing laws and guidelines affect digital forensics practices	(i) identify ways in which developing laws affect digital forensics practices		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(H) identify and describe ways in which developing laws and guidelines affect digital forensics practices	(ii) identify ways in which developing guidelines affect digital forensics practices		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(H) identify and describe ways in which developing laws and guidelines affect digital forensics practices	(iii) describe ways in which developing laws affect digital forensics practices		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(H) identify and describe ways in which developing laws and guidelines affect digital forensics practices	(iv) describe ways in which developing guidelines affect digital forensics practices		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(I) identify and describe legal considerations and technical issues related to collecting network traffic data	(i) identify legal considerations related to collecting network traffic data		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(I) identify and describe legal considerations and technical issues related to collecting network traffic data	(ii) describe legal considerations related to collecting network traffic data		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(I) identify and describe legal considerations and technical issues related to collecting network traffic data	(iii) identify technical issues related to collecting network traffic data		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(I) identify and describe legal considerations and technical issues related to collecting network traffic data	(iv) describe technical issues related to collecting network traffic data		

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Course Title	§126.36. Digital Forensics (One-Half to One Credit), Beginning with School Year 2012-2013			
TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(J) identify and describe ways in which technological changes affect applicable laws	(i) identify ways in which technological changes affect applicable laws		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(J) identify and describe ways in which technological changes affect applicable laws	(ii) describe ways in which technological changes affect applicable laws		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(K) identify and describe businesses and government agencies that use digital forensics	(i) identify businesses that use digital forensics		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(K) identify and describe businesses and government agencies that use digital forensics	(ii) describe businesses that use digital forensics		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(K) identify and describe businesses and government agencies that use digital forensics	(iii) identify government agencies that use digital forensics		
(5) Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:	(K) identify and describe businesses and government agencies that use digital forensics	(iv) describe government agencies that use digital forensics		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(A) demonstrate knowledge of and appropriately use operating systems, software applications, and communication and networking components	(i) demonstrate knowledge of operating systems		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(A) demonstrate knowledge of and appropriately use operating systems, software applications, and communication and networking components	(ii) demonstrate knowledge of software applications		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(A) demonstrate knowledge of and appropriately use operating systems, software applications, and communication and networking components	(iii) demonstrate knowledge of communication components		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(A) demonstrate knowledge of and appropriately use operating systems, software applications, and communication and networking components	(iv) demonstrate knowledge of networking components		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(A) demonstrate knowledge of and appropriately use operating systems, software applications, and communication and networking components	(v) appropriately use operating systems		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(A) demonstrate knowledge of and appropriately use operating systems, software applications, and communication and networking components	(vi) appropriately use software applications		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(A) demonstrate knowledge of and appropriately use operating systems, software applications, and communication and networking components	(vii) appropriately use communication components		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(A) demonstrate knowledge of and appropriately use operating systems, software applications, and communication and networking components	(viii) appropriately use networking components		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(B) compare, contrast, and appropriately use various input, processing, output, and primary and secondary storage devices	(i) compare various input devices		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(B) compare, contrast, and appropriately use various input, processing, output, and primary and secondary storage devices	(ii) contrast various input devices		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(B) compare, contrast, and appropriately use various input, processing, output, and primary and secondary storage devices	(iii) appropriately use various input devices		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(B) compare, contrast, and appropriately use various input, processing, output, and primary and secondary storage devices	(iv) compare various processing devices		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(B) compare, contrast, and appropriately use various input, processing, output, and primary and secondary storage devices	(v) contrast various processing devices		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(B) compare, contrast, and appropriately use various input, processing, output, and primary and secondary storage devices	(vi) appropriately use various processing devices		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(B) compare, contrast, and appropriately use various input, processing, output, and primary and secondary storage devices	(vii) compare various output devices		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(B) compare, contrast, and appropriately use various input, processing, output, and primary and secondary storage devices	(viii) contrast various output devices		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(B) compare, contrast, and appropriately use various input, processing, output, and primary and secondary storage devices	(ix) use appropriately various output devices		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(B) compare, contrast, and appropriately use various input, processing, output, and primary and secondary storage devices	(x) compare various primary storage devices		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(B) compare, contrast, and appropriately use various input, processing, output, and primary and secondary storage devices	(xi) contrast various primary storage devices		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(B) compare, contrast, and appropriately use various input, processing, output, and primary and secondary storage devices	(xii) appropriately use various primary storage devices		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(B) compare, contrast, and appropriately use various input, processing, output, and primary and secondary storage devices	(xiii) compare various secondary storage devices		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(B) compare, contrast, and appropriately use various input, processing, output, and primary and secondary storage devices	(xiv) contrast various secondary storage devices		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(B) compare, contrast, and appropriately use various input, processing, output, and primary and secondary storage devices	(xv) appropriately use various secondary storage devices		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(C) make decisions regarding the selection, acquisition, and use of software, including its quality, appropriateness, effectiveness, and efficiency	(i) make decisions regarding the selection of software, including its quality		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(C) make decisions regarding the selection, acquisition, and use of software, including its quality, appropriateness, effectiveness, and efficiency	(ii) make decisions regarding the selection of software, including its appropriateness		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(C) make decisions regarding the selection, acquisition, and use of software, including its quality, appropriateness, effectiveness, and efficiency	(iii) make decisions regarding the selection of software, including its effectiveness		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(C) make decisions regarding the selection, acquisition, and use of software, including its quality, appropriateness, effectiveness, and efficiency	(iv) make decisions regarding the selection of software, including its efficiency		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(C) make decisions regarding the selection, acquisition, and use of software, including its quality, appropriateness, effectiveness, and efficiency	(v) make decisions regarding the acquisition of software, including its quality		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(C) make decisions regarding the selection, acquisition, and use of software, including its quality, appropriateness, effectiveness, and efficiency	(vi) make decisions regarding the acquisition of software, including its appropriateness		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(C) make decisions regarding the selection, acquisition, and use of software, including its quality, appropriateness, effectiveness, and efficiency	(vii) make decisions regarding the acquisition of software, including its effectiveness		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(C) make decisions regarding the selection, acquisition, and use of software, including its quality, appropriateness, effectiveness, and efficiency	(viii) make decisions regarding the acquisition of software, including its efficiency		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(C) make decisions regarding the selection, acquisition, and use of software, including its quality, appropriateness, effectiveness, and efficiency	(ix) make decisions regarding the use of software, including its quality		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(C) make decisions regarding the selection, acquisition, and use of software, including its quality, appropriateness, effectiveness, and efficiency	(x) make decisions regarding the use of software, including its appropriateness		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(C) make decisions regarding the selection, acquisition, and use of software, including its quality, appropriateness, effectiveness, and efficiency	(xi) make decisions regarding the use of software, including its effectiveness		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(C) make decisions regarding the selection, acquisition, and use of software, including its quality, appropriateness, effectiveness, and efficiency	(xii) make decisions regarding the use of software, including its efficiency		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(D) demonstrate knowledge of data formats			
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(E) demonstrate knowledge of networks, including the Internet, intranets, and extranets	(i) demonstrate knowledge of networks, including the Internet		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(E) demonstrate knowledge of networks, including the Internet, intranets, and extranets	(ii) demonstrate knowledge of networks, including intranets		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(E) demonstrate knowledge of networks, including the Internet, intranets, and extranets	(iii) demonstrate knowledge of networks, including extranets		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(F) compare and contrast non-volatile data and volatile data	(i) compare non-volatile data and volatile data		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(F) compare and contrast non-volatile data and volatile data	(ii) contrast non-volatile data and volatile data		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(G) describe file basics, including file storage, file systems, and other types of storage media	(i) describe file basics, including file storage		

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TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(G) describe file basics, including file storage, file systems, and other types of storage media	(ii) describe file basics, including file systems		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(G) describe file basics, including file storage, file systems, and other types of storage media	(iii) describe file basics, including other types of storage media		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(H) describe file modification, including access and creation times	(i) describe file modification, including access times		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(H) describe file modification, including access and creation times	(ii) describe file modification, including creation times		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(I) describe operating systems, including terminology and functions	(i) describe operating systems, including terminology		

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TEKS (Knowledge and Skills)	Student Expectation	Breakout	Element	Subelement
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(I) describe operating systems, including terminology and functions	(ii) describe operating systems, including functions		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(J) describe technical procedures related to collecting operating system data			
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(K) describe the significance to digital forensics of the Transmission Control Protocol/Internet Protocol (TCP/IP) model, including application, transport, IP, and hardware layers	(i) describe the significance to digital forensics of the Transmission Control Protocol/Internet (TCP/IP) model, including application layers		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(K) describe the significance to digital forensics of the Transmission Control Protocol/Internet Protocol (TCP/IP) model, including application, transport, IP, and hardware layers	(ii) describe the significance to digital forensics of the Transmission Control Protocol/Internet (TCP/IP) model, including transport layers		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(K) describe the significance to digital forensics of the Transmission Control Protocol/Internet Protocol (TCP/IP) model, including application, transport, IP, and hardware layers	(iii) describe the significance to digital forensics of the Transmission Control Protocol/Internet (TCP/IP) model, including IP layers		

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TEKS (Knowledge and Skills)	**Student Expectation**	**Breakout**	**Element**	**Subelement**
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(K) describe the significance to digital forensics of the Transmission Control Protocol/Internet Protocol (TCP/IP) model, including application, transport, IP, and hardware layers	(iv) describe the significance to digital forensics of the Transmission Control Protocol/Internet (TCP/IP) model, including hardware layers		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(L) describe the function and use of application components, including configurations settings, authentications, logs, application data, supporting files, and application architecture	(i) describe the function of application components, including configurations settings		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(L) describe the function and use of application components, including configurations settings, authentications, logs, application data, supporting files, and application architecture	(ii) describe the function of application components, including authentications		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(L) describe the function and use of application components, including configurations settings, authentications, logs, application data, supporting files, and application architecture	(iii) describe the function of application components, including logs		

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(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(L) describe the function and use of application components, including configurations settings, authentications, logs, application data, supporting files, and application architecture	(iv) describe the function of application components, including application data		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(L) describe the function and use of application components, including configurations settings, authentications, logs, application data, supporting files, and application architecture	(v) describe the function of application components, including supporting files		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(L) describe the function and use of application components, including configurations settings, authentications, logs, application data, supporting files, and application architecture	(vi) describe the function of application components, including application architecture		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(L) describe the function and use of application components, including configurations settings, authentications, logs, application data, supporting files, and application architecture	(vii) describe the use of application components, including configurations settings		

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(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(L) describe the function and use of application components, including configurations settings, authentications, logs, application data, supporting files, and application architecture	(viii) describe the use of application components, including authentications		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(L) describe the function and use of application components, including configurations settings, authentications, logs, application data, supporting files, and application architecture	(ix) describe the use of application components, including logs		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(L) describe the function and use of application components, including configurations settings, authentications, logs, application data, supporting files, and application architecture	(x) describe the use of application components, including application data		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(L) describe the function and use of application components, including configurations settings, authentications, logs, application data, supporting files, and application architecture	(xi) describe the use of application components, including supporting files		

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(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(M) describe the functions and use of application types, including email, web usage, interactive communications, file sharing, document usage, security applications, and data concealment tools	(i) describe the functions of application types, including email		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(M) describe the functions and use of application types, including email, web usage, interactive communications, file sharing, document usage, security applications, and data concealment tools	(ii) describe the functions of application types, including web usage		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(M) describe the functions and use of application types, including email, web usage, interactive communications, file sharing, document usage, security applications, and data concealment tools	(iii) describe the functions of application types, including interactive communications		

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(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(M) describe the functions and use of application types, including email, web usage, interactive communications, file sharing, document usage, security applications, and data concealment tools	(iv) describe the functions of application types, including file sharing		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(M) describe the functions and use of application types, including email, web usage, interactive communications, file sharing, document usage, security applications, and data concealment tools	(v) describe the functions of application types, including document usage		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(M) describe the functions and use of application types, including email, web usage, interactive communications, file sharing, document usage, security applications, and data concealment tools	(vi) describe the functions of application types including security applications		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(M) describe the functions and use of application types, including email, web usage, interactive communications, file sharing, document usage, security applications, and data concealment tools	(vii) describe the functions of application types including data concealment tools		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(M) describe the functions and use of application types, including email, web usage, interactive communications, file sharing, document usage, security applications, and data concealment tools	(viii) describe the use of application types, including email		

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(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(M) describe the functions and use of application types, including email, web usage, interactive communications, file sharing, document usage, security applications, and data concealment tools	(x) describe the use of application types, including interactive communications		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(M) describe the functions and use of application types, including email, web usage, interactive communications, file sharing, document usage, security applications, and data concealment tools	(xi) describe the use of application types, including file sharing		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(M) describe the functions and use of application types, including email, web usage, interactive communications, file sharing, document usage, security applications, and data concealment tools	(xii) describe the use of application types, including document usage		
(6) Technology operations and concepts: The student understands technology concepts, systems, and operations as they apply to computer science. The student is expected to:	(M) describe the functions and use of application types, including email, web usage, interactive communications, file sharing, document usage, security applications, and data concealment tools	(xiii) describe the use of application types, including security applications		

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