

## 4.0 COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

**4.4 Management of Information Systems (S):** Students will understand how to analyze the need for, plan, manage, and support the use of business systems to accomplish mission-critical functions. They will demonstrate competency by successfully deploying a management system that improves the productivity of an organization.

### Link to Content Standards for California Public Schools

Benchmarks	English Standards	Math Standards	Science Standards	Social Science/ History Standards
4.4.1 Change Management—analyze the potential impact of a system on the people in the organization through the systems life cycle and develop appropriate plans addressing impact on resources	<b>(9-10)W1.3-1.5;</b> (9-10)W2.6; (9-10)LS1.3-1.9; (11-12)W1.6-1.8	<b>(6)SDP1.1;</b> <b>(6)SDP2.5;</b> <b>(7)NS1.1-1.3;</b> <b>(7)NS1.6, 1.7;</b> <b>(7)NS2.1-2.3;</b> <b>(7)AF1.1, 1.2, 1.5;</b> <b>(7)AF4.1, 4.2;</b> <b>(7)MG1.1-1.3;</b> <b>(7)MR1.1, 1.2;</b> <b>(7)MR2.1, 2.3, 2.4, 3.1, 3.3;</b> P&S4.0-8.0	(9-12)I&E1 c, d, j, m	
4.4.2 Deployment Planning—identify steps for systems implementation and resources needed including technical support and ongoing active learning and training programs	<b>(9-10)W1.1, 1.3-1.8;</b> (9-10)W2.6; (9-10)LS1.3-1.8; (11-12)R2.3; (11-12)W1.3, 1.6-1.8	<b>(7)MR1.1;</b> <b>(7)MR2.1, 3.1, 3.3</b>	(9-12)I&E1 a	

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Benchmarks	English Standards	Math Standards	Science Standards	Social Science/ History Standards
4.4.3 Needs Analysis– describe a business problem, examine functional requirements, and prepare a cost-benefit analysis	<b>(9-10)W1.3-1.9;</b> <b>(9-10)W2.3;</b> (9-10)LS2.5-2.6; (11-12)W1.1, 1.3, 1.6-1.8	<b>(6)SDP1.1; (6)SDP2.5;</b> <b>(7)NS1.1-1.3; (7)NS1.6, 1.7;</b> <b>(7)NS2.1-2.3;</b> <b>(7)AF1.1, 1.2, 1.5;</b> <b>(7)AF4.1, 4.2; (7)MG1.1-1.3;</b> <b>(7)MR1.1, 1.2;</b> <b>(7)MR2.1, 2.3, 2.4, 3.1, 3.3;</b> <b>AI-5.0; AI-8.0;</b> <b>AI-10.0; AI-13.0;</b> <b>AI-15.0; AI-17.0;</b> P&S4.0-8.0; APP&S14.0; C11.0	(9-12)I&E1 a, d, e, j	
4.4.4 Resource Management–explain how to qualify, recruit and manage both internal and external resources needed when developing, deploying, and supporting systems in an organization	<b>(9-10)W1.3-1.9;</b> <b>(9-10)W2.3;</b> (9-10)LS2.5-2.6; (11-12)W1.1, 1.3, 1.6-1.8	<b>(7)MR3.3</b>	(9-12)I&E1 a, d, e, j	
4.4.5 Risk Analysis– identify and analyze organizational, technical, and financial risks associated with the implementation and use of a system	<b>(9-10)W1.3-1.8;</b> <b>(9-10)W2.3;</b> (9-10)LS2.6; (11-12)R2.3; (11-12)W1.3, 1.6-1.8	<b>(6)SDP1.1; (6)SDP2.5;</b> <b>(7)NS1.1-1.3;</b> <b>(7)NS1.6, 1.7;</b> <b>(7)NS2.1-2.3;</b> <b>(7)AF1.1, 1.2, 1.5;</b> <b>(7)AF4.1, 4.2;</b> <b>(7)MG1.1-1.3;</b> <b>(7)MR1.1, 2.1, 3.1, 3.3;</b> AI-13.0; <b>AI-15.0; P&amp;S4.0-8.0</b>	(9-12)I&E1 a, d, j	

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## Link to Content Standards for California Public Schools

Benchmarks	English Standards	Math Standards	Science Standards	Social Science/ History Standards
4.4.6 Systems Management—develop system life-cycle models and plans for the ongoing upgrade, support, and training of users	<b>(9-10)W1.3-1.5;</b> (9-10)W2.6; (9-10)LS1.3-1.9; (11-12)W1.6-1.8	<b>(7)NS1.1-1.3;</b> <b>(7)NS2.1-2.3;</b> <b>(7)AF1.1, 1.2, 1.5;</b> <b>(7)AF4.1, 4.2;</b> <b>(7)MR1.1, 2.1, 3.1, 3.3</b>	(9-12)I&E1 a, d, j	
4.4.7 Systems Security—develop a plan and implement policies and procedures to ensure the security and integrity of management systems	<b>(9-10)W1.3-1.5;</b> (9-10)W2.6; (9-10)LS1.3-1.9; (11-12)W1.6-1.8	<b>(7)MR3.3</b>	(9-12)I&E1 a, d	
4.4.8 Systems Selection—investigate, evaluate, select, and use major types of systems applications and vendors including retail, manufacturing, and service management	<b>(9-10)R2.1;</b> <b>(9-10)R2.4-2.6;</b> <b>(9-10)W1.3-1.8;</b> (9-10)LS1.1; (11-12)W1.6-1.8	<b>(6)SDP1.1;</b> <b>(6)SDP2.5;</b> <b>(7)NS1.1-1.3;</b> <b>(7)NS1.6, 1.7;</b> <b>(7)NS2.1-2.3;</b> <b>(7)AF1.1, 1.2, 1.5;</b> <b>(7)AF4.1, 4.2;</b> <b>(7)MG1.1-1.3;</b> <b>(7)MR1.1, 2.1, 3.1, 3.3</b>	(9-12)I&E1 a, d, g, j	
4.4.9 Training—design information and instruction for users to ensure efficient, productive systems operation	<b>(9-10)W1.3-1.8;</b> (9-10)W2.6; (9-10)LS1.3-1.9; (11-12)W1.3, 1.6-1.8; (11-12)W2.6	<b>(7)MR1.1, 2.1, 3.1, 3.3</b>	(9-12)I&E1 a, d	

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