

CTE Course Description and Standards Crosswalk

Course Information

Course Name	Web Site Manager
Course Number	83460
Number of High School Credits	.5
Sequence or CTEPS (You must first have the Sequence or CTEPS entered into the EED-CTE system.)	Web Design/Graphic Artist
Date of district Course Revision	February 2014

Career & Technical Student Organization (CTSO)

CTSO embedded in this sequence	BPA
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Occupational Standards

Source of Occupational Standards	National Business Educators Association (NBEA)
Names/Numbers of Occupational Standards	Information Technology (IT); Entrepreneurship (EN); Career Development (CD)

Registration Information

Course Description (brief paragraph – as shown in your student handbook or course list)	Web Site Manager covers how to setup and maintain a web server. Students learn how to choose appropriate Internet system platforms, appropriate Internet connections and configuring TCP/IP protocol suite. Students will also learn how to connect ecommerce databases to Web servers, and receive the fundamentals on server and Internet security. In addition, students will learn the basics of JavaScript, Perl and PHP scripting languages. Sample occupations in this pathway are web designer and site designer or manager.
Instructional Topic Headings (please separate each heading by a semi-colon)	Internet system installation and configuration, User management essentials, Name resolution, Implementing Internet Services, Enabling Secure Sockets Layer and security, Career and Technical Student Organizations (CTSOs), Entrepreneurship, Safety, Ethics

Summative Assessments and Standards

Technical Skills Assessment (TSA)	Yes
Course addresses:	A+, N+
New Alaska ELA and Math Standards	Yes
Alaska Cultural Standards	Yes
All Aspects of Industry (AAI)	Yes
Core Technical Standards	Yes
Employability Standards	Yes

Employability Standards

Source of Employability Standards	State of Alaska
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Tech Prep

Current Tech Prep Articulation Agreement? (Y/N)	No
Date of Current Agreement	
Postsecondary Institution Name	
Postsecondary Course Name	
Postsecondary Course Number	
# of Postsecondary Credits	

Source of Occupational Skills Standards

DISTRICT NAME: Mat-Su Borough School District

Source/Organization /Agency	Acro nym	Website or Location of Information	Section, Chapters, etc. referenced in Performance Standards	Date of Edition or Version
National Business Education Assn.	NBEA	http://www.nbea.org	Career Development, Computation, Entrepreneurship, Information Technology, Marketing,	2013

Additional CTE Course Information

Author	
Course developed by	Revised by Kristopher Wagoner
Course adapted from	WebSite Manager
Date of previous course revision	May 2008
Course Delivery Model	
Is the course brokered through another institution or agency? (Y/N)	No

Standards Alignment

Student Performance Standards (Learner Outcomes or Knowledge & Skill Statements)	Specific Occupational Skills Standard	Common Technical Core Standards	New Alaska ENG/LA Standards	New Alaska Math Standards	Alaska Cultural Standards	Employability/ Career Readiness Standards	All Aspects of Industry/ Systems	Assessment
Install and configure O/S on a server.	IT-V	IT2,7,8,9,11,12 IT-WD2,4,5,6,8,9	L.9-12.6 RST.9-12.1-4		B2,4	A2,5	Technical Skills Technology	CIW
Install and configure appropriate software on a server.	IT-V	IT11,12 IT-PRG1,3,4,5,7,8,9	L.9-12.6 RST.9-12.1-4		B2,3,4	A2,5	Technical Skills Technology Planning	CIW
Install and configure a database on a server.	IT-X	IT11,12 IT-PRG1,3,4,5,7,8,9,10	L.9-12.6 RST.9-12.1-4		B2,4	A2,5	Technical Skills Technology	CIW
Create server and user side scripts for an ecommerce site.	IT-V	IT2,7,8,9,11,12 IT-WD2,4,5,6,8,9	L9-12.1.a-b L.9-12.2.a-c L.9-12.3.a L.9-12.6 RST.9-	A-CED.4 A-REI.1	B2,4	A2,5	Technical Skills Technology	CIW

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Student Performance Standards (Learner Outcomes or Knowledge & Skill Statements)	Specific Occupational Skills Standard	Common Technical Core Standards	New Alaska ENG/LA Standards	New Alaska Math Standards	Alaska Cultural Standards	Employability/ Career Readiness Standards	All Aspects of Industry/ Systems	Assessment
			12.1-4					
Discuss server and transaction security concerns.	IT-XV	IT4,6,8,10 IT-WD1,10	SL.9-12.1.a-d L.9-12.6 WHST.9-12.9		B2,3,4	A2,5	Technical Skills Technology	CIW
Identify bottlenecks and solutions on Internet servers.	IT-XVI	IT2,4,6,7,8, 9,10,11,12	SL.9-12.4 L.9-12.6 RST.9-12.1-4 WHST.9-12.7	N-Q.1-3	B2,4	A2,5	Technical Skills Technology	CIW
Follow professional ethics including software licensing, copyright and intellectual property laws.	IT-I,II	BM2,5,6 IT 4 IT-WD 10	WHST.9-12.8 L.9-12.6		B2,3,4	A1,2,5,7	Technical Skills Technology Work Habits	Statement of Authenticity
Research career opportunities in the Business/IT career area.	IT-XVII EN-I CD-II	BM3,5,6	L.9-12.6 SL.9-12.6 WHST.9-12.6	S-MD.6 S-IC.6	B2,3,4	A1,2,3,4,5,6,7 B1,2,3,4,5	Technical Skills Planning Technology	AKcis Portfolio
Encourage CTSO involvement.	IT-XVII EN-I	BM3,5,6	L.9-12.6 SL.9-12.6 SL.9-12.1.a-d		B2,3,4 C4 D6 E7,8	A2,5	Technical Skills Technology Planning Labor Work Habits	BPA Competitions
Recognize entrepreneurship opportunities and the role of employer vs. employee.	IT-XVII EN-I CD-V	BM3,5,6	L.9-12.6 SL.9-12.6	S-MD.6 S-IC.6	B2,4	A2,5	Technical Skills Labor	BPA-Small Business Management Team Work Keys
Demonstrate safe use of tools and equipment, cyber safety and ergonomic safety in the workplace.	IT-I	BM5,6 IT4	L.9-12.6 WHST.9-12.8		B2,4	A1,6	Technical Skills Health/Safe	AK EED Safety Manual

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Form #05-13-028

Alaska Department of Education and Early Development

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							ty	Business & Information Systems
Practice and promote ethics and ethical behavior in the workplace	IT-I	BM2,5,6 IT4	WHST.9-12.8	S-MD.6 S-IC.6	B2,3,4	A,1,2,5	Technical Skills Work Habits Management	CTSO Participation Work Keys

Instructional Resources

List the major instructional resources used for this course: (websites, textbooks, essential equipment, reference materials, supplies)

Recommended Text(s): Web Server Administration ISBN: 0-619-06439-0

Web Programming ISBN: 0-619-06458-7

Resources:

CIW Web Site Manager after passing CIW Site Designer,

Server Administrator, Javascript and Perl Fundamentals Exam <http://www.ciwcertified.com/certifications/>

Practice Exams: Boson Education by Simulation

Perl <http://www.boson.com/products/70299.htm>

Javascript <http://www.boson.com/products/70073.htm>

Web Server Admin <http://www.boson.com/products/70030.htm>

AKCIS – Alaska Career Information System <http://www.akcis.org/>