

Standards Correlations

Dental Careers II (8329)

Task	SOL Correlations	HOSA Correlations
Demonstrating Personal Qualities and Abilities		
Demonstrate creativity and innovation.	<p>English: 6.1, 6.3, 6.4, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8</p> <p>History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1</p> <p>Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 8.2, 8.4, 8.6, 8.7, 8.11, 8.12, 8.17, 8.18, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, AII.9, COM.1, COM.3, COM.4, COM.5, COM.8, DM.7, DM.1*, DM.10, DM.2*, DM.3*, PS.3*, PS.4*, PS.7*, PS.9*, PS.10*</p> <p>Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1</p>	
Demonstrate critical thinking and problem solving.	<p>English: 6.1, 6.3, 6.4, 6.5, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.5, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.5, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8</p> <p>History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1</p> <p>Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.10, 6.11, 7.2, 7.3, 7.8, 7.12, 7.13, 8.2, 8.4, 8.8, 8.9, 8.10, 8.11, A.8, A.9, G.1, G.13, G.14, AFDA.3, AFDA.5, AFDA.8, AII.9, AII.10, AII.11, COM.1, COM.3, COM.4, COM.5, COM.8, DM.4, DM.7, DM.1*, DM.2*, DM.3*, DM.9*, PS.9*, PS.10*</p> <p>Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1</p>	

Task	SOL Correlations	HOSA Correlations
Demonstrate initiative and self-direction.	English: 6.1, 6.4, 6.6, 6.7, 6.9, 7.1, 7.4, 7.6, 7.7, 7.9, 8.1, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate integrity.	English: 6.1, 7.1, 8.1, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate work ethic.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1	
Demonstrating Interpersonal Skills		
Demonstrate conflict-resolution skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.4, 8.6, 8.7, 8.9, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, VUS.1	
Demonstrate listening and speaking skills.	English: 6.1, 6.2, 6.4, 6.6, 7.1, 7.2, 7.4, 7.6, 8.1, 8.2, 8.4, 8.6, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate respect for diversity.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, USII.9, VUS.1, VUS.13, WG.1, WHI.1, WHII.1	
Demonstrate customer service skills.	English: 6.1, 6.4, 6.7, 7.1, 7.4, 7.7, 8.1, 8.4, 8.7, 9.1, 9.5, 9.6, 10.1, 10.5, 10.6, 11.1, 11.5, 11.6, 12.1, 12.5, 12.6 History and Social Science: CE.1, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Collaborate with team members	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1	

Task	SOL Correlations	HOSA Correlations
	History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrating Professional Competencies		
Demonstrate big-picture thinking.	English: 6.1, 6.4, 7.1, 7.4, 8.1, 8.4, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Science: CE.1, CE.4, CE.12, GOVT.1, GOVT.15, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate career- and life-management skills.	English: 6.1, 6.7, 7.1, 7.7, 8.1, 8.7, 9.1, 9.6, 10.1, 10.6, 11.1, 11.6, 12.1, 12.6 History and Social Science: CE.1, CE.4, CE.12, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 8.4	
Demonstrate continuous learning and adaptability.	English: 6.1, 6.4, 6.7, 6.9, 7.1, 7.4, 7.7, 7.9, 8.1, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.3, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: BIO.1, CH.1, LS.1, PH.1, PH.4, PS.1	
Manage time and resources.	English: 6.1, 6.2, 6.4, 6.7, 6.9, 7.1, 7.2, 7.4, 7.7, 7.9, 8.1, 8.2, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 7.10, 7.11, 7.12, 7.13, 8.4, 8.11, 8.12, 8.13, 8.14, 8.17, 8.18, A.4, A.5, A.8, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, COM.1, COM.3, COM.5, COM.8	

Task	SOL Correlations	HOSA Correlations
Demonstrate information-literacy skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.9, 9.2, 9.5, 9.6, 9.8, 10.2, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.8, 7.9, 8.11, 8.12, A.8, A.9, AFDA.3, AFDA.4, AFDA.6, AFDA.7, AFDA.8, DM.8, PS.1*, PS.2*, PS.3*, PS.4*, PS.7*, PS.8*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1	
Demonstrate an understanding of information security.	English: 6.1, 6.2, 6.3, 6.4, 6.6, 6.7, 6.8, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.8, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.8, 8.9, 9.1, 9.2, 9.5, 9.6, 9.8, 10.1, 10.2, 10.5, 10.6, 10.8, 11.1, 11.2, 11.5, 11.6, 11.8, 12.1, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: COM.10	
Maintain working knowledge of current information-technology (IT) systems.	English: 6.1, 6.3, 6.4, 6.6, 6.9, 7.1, 7.3, 7.4, 7.6, 7.9, 8.1, 8.3, 8.4, 8.6, 8.9 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 7.8, COM.1, COM.2, COM.7, COM.9, COM.10, COM.11, COM.16, COM.18, PS.17 Science: BIO.1, CH.1, ES.1, PH.1	
Demonstrate proficiency with technologies, tools, and machines common to a specific occupation.	History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.9, 8.4, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AII.4, AII.7, AII.9, COM.1, COM.7, COM.10, COM.11, COM.12, COM.16 Science: CH.1, ES.1, LS.1, PH.1, PS.1	

Task	SOL Correlations	HOSA Correlations
Apply mathematical skills to job-specific tasks.	English: 6.4, 6.6, 6.7, 7.4, 7.6, 7.7, 8.4, 8.6, 8.7, 9.5, 9.6, 10.5, 10.6, 11.5, 11.6, 12.5, 12.6 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.5, 6.6, 6.12, 6.13, 6.14, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.8, 7.9, 7.11, 7.12, 7.13, 8.4, 8.5, 8.6, 8.8, 8.9, 8.10, 8.11, 8.12, 8.13, 8.14, 8.15, 8.16, 8.17, 8.18, A.1, A.3, A.4, A.5, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AFDA.8, AII.3, AII.7, AII.9, AII.10, COM.1, COM.7 Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1	
Demonstrate professionalism.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1	
Demonstrate reading and writing skills.	English: 6.1, 6.6, 6.7, 7.1, 7.6, 7.7, 8.1, 8.6, 8.7, 9.1, 9.5, 9.6, 9.7, 10.1, 10.5, 10.6, 10.7, 11.1, 11.5, 11.6, 11.7, 12.1, 12.5, 12.6, 12.7 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: 6.1, PH.1, PS.1	
Demonstrate workplace safety.	English: 6.4, 7.4, 8.4, 9.5, 10.5, 11.5, 12.5 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1	
Examining All Aspects of an Industry		
Examine aspects of planning within an industry/organization.	History and Social Science: GOVT.16	
Examine aspects of management within an industry/organization.		

Task	SOL Correlations	HOSA Correlations
Examine aspects of financial responsibility within an industry/organization.		
Examine technical and production skills required of workers within an industry/organization.		
Examine principles of technology that underlie an industry/organization.		
Examine labor issues related to an industry/organization.	History and Social Science: GOVT.16	
Examine community issues related to an industry/organization.	History and Social Science: GOVT.16	
Examine health, safety, and environmental issues related to an industry/organization.	History and Social Science: GOVT.16	
Addressing Elements of Student Life		
Identify the purposes and goals of the student organization.		
Explain the benefits and responsibilities of membership in the student organization as		

Task	SOL Correlations	HOSA Correlations
a student and in professional/civic organizations as an adult.		
Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects.		
Identify Internet safety issues and procedures for complying with acceptable use standards.		
Exploring Work-based Learning		
Identify the types of work-based learning (WBL) opportunities.		
Reflect on lessons learned during the WBL experience.		
Explore career opportunities related to the WBL experience.		
Participate in a WBL experience, when appropriate.		
Performing Administrative Functions		
Schedule appointments.	English; 12.5	Dental Science (DS)
Manage patient conversations.	English; 12.5	Dental Science (DS)
Recall patients.	English: 12.1	Dental Science (DS)

Task	SOL Correlations	HOSA Correlations
Demonstrate accounts receivable procedures.	English: 12.1	
Perform accounts payable transactions.	English: 12.6, 12.7	
Fill out insurance forms in accordance with the Health Insurance Portability and Accountability Act (HIPAA).	English: 12.5, 12.6 History: Govt 7, 8, 9, 15	
Manage inventory.	English: 12.6	
Demonstrate the use of administrative dental office technologies.	English: 12.6	
Handling Medical Emergencies		
Explain the basic medical emergency procedures and rules for a dental office.	English: 12.5 History: Govt 8, 9, 15	Dental Science (DS)
List items found in basic emergency kits.	English: 12.6	Dental Science (DS)
Describe the causes, symptoms, and treatments of selected medical situations/emergencies.	English: 12.5	Dental Science (DS)
Obtain certification in AHA Basic Life Support for Healthcare Providers and AHA Heartsaver First Aid.	English: 12.5	Dental Science (DS) CPR/First Aid (CPR)
Demonstrate AHA Cardiopulmonary	English: 12.5	Dental Science (DS)

Task	SOL Correlations	HOSA Correlations
Resuscitation (CPR) and/or automated external defibrillator (AED) procedures.		CPR/First Aid (CPR)
Exploring Principles of Pharmacology and Assisting with Pain Control		
Explain pharmacology terms.	English: 12.5	Dental Terminology (DT) Pharmacology (PHA)
Explain the types of anesthesia used in dentistry.	English: 12.5	Dental Terminology (DT)
Describe the components of a prescription.	English: 12.5	Pharmacology (PHA)
Describe the signs and symptoms of drug abuse.	English: 12.5	Behavioral Health (BH)
Explain the major routes of drug administration.	English: 12.5	Medical Assisting (MA) Clinical Nursing (CN) Emergency Medical Technician (EMT)
Describe various drugs used in dentistry.	English: 12.5	Pharmacology (PHA)
Performing Radiographic Procedures		
Describe the basic concepts of radiography.	English: 12.5	Dental Science (DS)
Describe radiographic equipment.	English: 12.5	Dental Science (DS)

Task	SOL Correlations	HOSA Correlations
Describe digital radiography.	English: 12.5	Dental Science (DS)
Obtain radiation and health safety certification.	English; 12.5, 12.8 History: Govt 8, 9, 15	
Outline governmental health and safety standards for use of radiographic equipment.	English; 12.6, 12.7 History: Govt 7, 8, 9, 15	Dental Science (DS)
Demonstrate techniques for executing radiographic exposures in accordance with safety standards.	English: 12.1	Dental Science (DS)
Identify quality-control tests to ensure the production of high-quality radiographs.	English: 12.5	Dental Science (DS)
Demonstrate various methods of processing radiographs.		Dental Science (DS)
Demonstrate mounting radiographs.	English: 12.5	Dental Science (DS)
Explain which radiographic techniques to use for patients with special needs.	English: 12.5	Dental Science (DS)
Maintain radiographic processing equipment.		Dental Science (DS)
Demonstrating Chairside Procedures		
Assist with an amalgam procedure.		Dental Science (DS)

Task	SOL Correlations	HOSA Correlations
Assist with a composite procedure.		Dental Science (DS)
Simulate assisting with basic oral surgery procedures.		Dental Science (DS)
Simulate assisting with an endodontic procedure.		
Simulate assisting with a periodontal procedure.		
Simulate assisting with an orthodontic procedure.		
Simulate assisting with a fixed prosthodontics procedure.		
Simulate assisting with a removable prosthodontics procedure.		
Apply pit and fissure sealants.		
Obtain alginate impressions for diagnostic casts.		Dental Science (DS)
Explain assisting in the administration of local anesthesia.	English: 12.5	
Performing Laboratory Procedures		
Pour and trim diagnostic casts.		

Task	SOL Correlations	HOSA Correlations
Prepare a dental laboratory prescription.	History: Govt 8, 9	
Mount models on a simple hinge articulator.		
Fabricate miscellaneous appliances.		
Gaining and Maintaining Employment		
Explain the process for gaining certification.	English: 12.5 History: Govt 7, 8, 9	
Explain the importance of continuing education.	English; 12.5, 12.8	
Describing the Opioid Crisis		
Describe the history and current state of the opioid crisis in the United States.	English: 12.5	Health Science Events <ul style="list-style-type: none"> • Medical Spelling • Medical Terminology Teamwork Events <ul style="list-style-type: none"> • Creative Problem Solving • HOSA Bowl • Public Service Announcement

Task	SOL Correlations	HOSA Correlations
Describe the history and current state of the opioid crisis in Virginia.	English: 12.5, 12.8	
Define the pharmacological components and common uses of opioids.	English: 12.3, 12.8	Health Science Events <ul style="list-style-type: none"> • Medical Spelling • Medical Terminology • Knowledge Test: Pharmacology Health Professions Events <ul style="list-style-type: none"> • Clinical Nursing
Examining Key Factors of Drug Addiction		
Examine the science of addiction.	English: 12.5	
Explain prevention and early intervention strategies.	English: 12.5, 12.8	
Identify addiction and its behavioral elements, as defined by the Diagnostic and Statistical Manual of Mental Disorders (DSM-5).	English: 12.5	Health Science Events <ul style="list-style-type: none"> • Knowledge Test: Behavioral Health • Knowledge Test: Medical Law and Ethics

Task	SOL Correlations	HOSA Correlations
		Health Professions Events <ul style="list-style-type: none"> • Clinical Nursing
Describe the treatment models of addiction therapy.	English: 12.5	Health Science Events <ul style="list-style-type: none"> • Knowledge Test: Behavioral Health • Knowledge Test: Medical Law and Ethics Health Professions Events <ul style="list-style-type: none"> • Clinical Nursing
Describe the medication management antidote used to prevent fatal opioid overdoses.	English: 12.5, 12.8	Health Science Events <ul style="list-style-type: none"> • Medical Spelling • Medical Terminology • Knowledge Test: Pharmacology
Understanding Pain Management Protocols		
Explain the science of physiological and mental pain.	English: 12.3, 12.5	Health Science Events <ul style="list-style-type: none"> • Knowledge Test: Nutrition

Task	SOL Correlations	HOSA Correlations
		<ul style="list-style-type: none"> Knowledge Test: Transcultural Health Care <p>Teamwork Events</p> <ul style="list-style-type: none"> Community Awareness Creative Problem Solving HOSA Bowl
Describe the diagnostic tools used in developing pain management plans.	English: 12.5	<p>Health Science Events</p> <ul style="list-style-type: none"> Knowledge Test: Nutrition Knowledge Test: Transcultural Health Care <p>Teamwork Events</p> <ul style="list-style-type: none"> Community Awareness Creative Problem Solving HOSA Bowl
Describe pain treatment options available to various populations of patients.	English: 12.5, 12.8	<p>Health Science Events</p> <ul style="list-style-type: none"> Knowledge Test: Nutrition

Task	SOL Correlations	HOSA Correlations
		<ul style="list-style-type: none"> Knowledge Test: Transcultural Health Care Teamwork Events <ul style="list-style-type: none"> Community Awareness Creative Problem Solving HOSA Bowl
Describe the effects of opioid dependency on the human body systems.	English: 12.5	Health Science Events <ul style="list-style-type: none"> Medical Spelling Medical Terminology Teamwork Events <ul style="list-style-type: none"> HOSA Bowl
Explain the mechanism and physical effects of opioids on the human body.	English: 12.5	Health Science Events <ul style="list-style-type: none"> Medical Spelling Medical Terminology Teamwork Events

Task	SOL Correlations	HOSA Correlations
		<ul style="list-style-type: none"> HOSA Bowl
Explain the use of opioids in practice settings, the role of opioids in pain management, and risk factors associated with the use of the medication.	English: 12.5	Health Science Events <ul style="list-style-type: none"> Medical Spelling Medical Terminology Knowledge Test: Pharmacology Teamwork Events <ul style="list-style-type: none"> Creative Problem Solving HOSA Bowl
Describe the withdrawal and tapering side effects of opioid use.	English: 12.5	Health Science Events <ul style="list-style-type: none"> Knowledge Test: Pharmacology Health Professions Events <ul style="list-style-type: none"> Clinical Nursing
Describe storage and disposal options for opioids.	English: 12.5, 12.8	Health Science Events

Task	SOL Correlations	HOSA Correlations
		<ul style="list-style-type: none"> Knowledge Test: Pharmacology Health Professions Events <ul style="list-style-type: none"> Clinical Nursing
Explain community resources for education about opioid use.	English: 12.5	Health Science Events <ul style="list-style-type: none"> Knowledge Test: Pharmacology Health Professions Events <ul style="list-style-type: none"> Clinical Nursing
Working with Patients and Caregivers		
Describe key communication topics involving opioids for patients.	English: 12.5	Health Science Events <ul style="list-style-type: none"> Medical Spelling Medical Terminology Health Professions Events

Task	SOL Correlations	HOSA Correlations
		<ul style="list-style-type: none"> • Clinical Nursing
Describe communication topics for caregivers and family members.	English: 12.5	Health Science Events <ul style="list-style-type: none"> • Medical Spelling • Medical Terminology Health Professions Events <ul style="list-style-type: none"> • Clinical Nursing