

CTE Lesson Plans — June 1, 2015

TECHNOLOGY & ENGINEERING EDUCATION		
A1-1	The Scientific Revolution	*
A1-2	The Discovery of Neptune	*
A1-3	Economic Concepts of Technology	*
A2-1	Understanding the Impact of Technology on History	*
A2-2	Explore Historical Periods of Technological Evolution	*
A2-3	Analyze the Historical Significance of Technological Advancements	*
A2-4	Explore the Relationship Between Technology and Science and Mathematics	*
A2-5	Explore the Relationship Between Technology and Society	*
A3-1	An Introduction to Engineering Design	*
A3-2	Understand the Engineering Design Process	*
A3-3	Engineering Resources	*
A3-4	An Introduction to Mechanical Technology	*
A3-5	An Introduction to Electrical Technology	*
A3-6	Understand the Reverse Engineering Process	*
A4-1	An Introduction to Fluid Technology	*
A4-2	An Introduction to Thermal Technology	*
A4-3	An Introduction to Optical Technology	*
A4-4	An Introduction to Materials Technology	*
A4-5	Understanding the Manufacturing Process	*
A4-6	An Introduction to Integrated Automated Process Technologies	*
A4-7	Understand the Processes Used to Produce Industrial Materials	*
A5-1	An Introduction to Construction Technology	*
A5-2	Understand Bridge Design and Construction	*
A5-3	Construction Management	*
A5-4	Understand Gantt Charts and Time vs. Completion Curves	*
A6-1	Major Energy Sources	*
A6-2	An Introduction to Batteries	*
A6-3	Alternative Energy Sources	*
A6-4	Energy and Cars	*
A6-5	The Great Energy Debate	*
A8-1	An Introduction to Information and Communication Technologies	*
A8-2	Communication Systems	*
A8-3	An Introduction to Navigation Technology	*
A8-4	The Global Positioning System (GPS)	*
A9-1	An Introduction to Systems Thinking*	*
A9-2	Systems Thinking and the Design Process	*
A9-3	Creativity in Design	*
A9-4	Environmental Factors Affecting Design	*
A9-5	Industrial Factors Affecting Design	*
A9-6	Human Factors Affecting Design	*
A9-7	Engineering Design Management	*
B4-1	Conduct Personal Assessment	*
B5-5	Behave Ethically in the Workplace	*
B6-1	Computer Overview	*
B6-2	Computers and Word Processing	*
B6-3	Email Use and Etiquette	*
C2-1	Identify Manufacturing Tools, Equipment, and Technologies	*
C4-1	Identify Competencies for Technological Literacy	*
D8-3	Identify and Use Problem-Solving Strategies for Technological Processes	*
Drafting and Design		
A1-1	Identify Various Manual Drafting Tools and Equipment	*
A1-2	Demonstrate the Use of Various Manual Drafting Tools and Equipment	*
A1-3	Read Metric Scales	*
A1-4	Use Drafting Media	*
A2-1	Identify Lettering Techniques and ASME Standards	*
A2-2	Draw Letters and Numbers Using Single-Stroke Gothic Font	*
A2-3	Draw Capital Letters, Whole Numbers, and Fractions	*
A3-1	Identify Freehand Sketching Techniques and Processes	*
A3-2	Replicate an Object Using the Alphabet of Lines	*
A3-3	Produce Proportional Views of Objects	*
A3-4	Aligning Views to a 90-Degree Projection	*
A3-5	True Shape (TS), Foreshortened (FS), and Edge Views (EV) of an Object	*
B1-1	Employment Opportunities in CADD	*
B1-2	CADD Equipment and Supplies	*
B1-3	Identify CADD Industry Skills and Standards	*
B1-4	Introduce the CADD Environment	*
B1-5	Industry Uses of CADD	*
B1-6	Explore Features of CADD	*
B2-1	CADD Software Set-up	*
B2-3	Identify Basic Commands to Draw Symbols and Objects	*
B2-4	Use Layers	*
B2-5	Scale Drawings for Plotting and Printing	*
C1-1	Properties of Orthographic Projection	*
C1-2	Produce Sketches Using Orthographic Projection	*
C1-3	Produce CADD Drawings Using Orthographic Projection	*
C1-4	Alphabet of Lines	*
C1-5	Proportional Views of Orthographic Figures	*
C2-1	Properties of Multiview Projection	*
C2-2	Produce Sketches Using Multiview Projection	*
C2-3	Produce CADD Drawings Using Multiview Projection	*
C2-4	Proportional Views of Multiview Figures	*
C3-1	Demonstrate Drilled, Blind Hole, Counterbored, and Countersunk Representations	*
C3-2	Intersections and Tangencies, Mitre Lines, and Planes of Projection	*
C3-3	Identify Filets, Rounds, and Runouts	*
C3-4	Differentiate Between First-Angle Projection and Third-Angle Projection	*
C3-5	Introduction to Dimensioning	*
C3-6	Characteristics of Dimensioning	*
C3-7	Dimensioning Systems and Practices	*
D1-1	Oblique and Axonometric Projection	*
D1-2	Produce a Sketch of an Object Using Oblique Projection	*
D1-3	Produce a Sketch of an Object Using Axonometric Projection	*

*An E-unit is available for this lesson plan.

NOTE: Lessons shown in *italics* have been added since the prior publication of this list.

D1-4	Produce CADD Drawings Using Oblique and Axonometric Projection	*	J1-5	Principles of Layer Management for CAD Programs	*	J10-4	Terminology and Symbols: Electricity and Electronics	*
D1-5	Apply the Alphabet of Lines to Oblique Drawings	*	J1-6	Produce Scale Drawings for Plotting*	*	J10-7	Drafting and Design Skills: Civil Engineering Applications	*
D1-6	Apply the Alphabet of Lines to Axonometric Drawings	*	J2-1	Define and Use Basic Geometric Construction Techniques	*	K1-3	The Meaning of Lines	*
D1-7	Proportional Views of Oblique Projections	*	J2-2	Define and Use Ellipses and Conic Sections	*	K1-4	Development Model	*
D1-8	Produce Proportional Views of Axonometric Projections	*	J2-3	Helixes and Spirals	*	K1-5	Presentation Model	*
E1-1	The History of Art and Design	*	J2-3	Helixes and Spirals	*	K1-6	Process Model Production	*
E1-2	The History of Design: Architects, Engineers, and Designers	*	J3-1	Demonstrate Basic Dimensioning Techniques	*	Manufacturing and Production		
E1-3	Explore the Nature of Materials	*	J3-2	Advanced Dimensioning Procedures*	*	A1-1	Manufacturing: An Economic Value Add	*
E1-4	Explore the Art of Design	*	J3-3	Demonstrate Geometric Dimensioning and Tolerance Procedures	*	A1-2	Manufacturing's Effect on Local Economies	*
E2-1	Explore the Roles of Drafters	*	J3-4	Interpret and Use Dimension Text and Notes	*	A1-3	Globally Competitive Manufacturing Organizations	*
E2-2	Explore the Roles of Designers	*	J4-1	Pictorial Drawings and Sketches	*	A2-1	Manufacturing and the Economy	*
E2-3	Explore the Roles of Engineers	*	J4-2	Pictorial Drawings and Sketches Using CADD	*	A2-2	Competitiveness	*
E2-4	Explore the Roles of Architects	*	J4-3	Proportional Views	*	A3-1	Human Relations Skills	*
F1-1	Use a Design Process	*	J4-4	Perspective Projection Methods	*	A3-2	Quality-Assurance Teams	*
F1-2	History of the Design Process	*	J5-1	Computer Visualization Models	*	A4-1	Leadership Skills	*
F2-1	Manufacturing Design Briefs	*	J5-2	3D Modeling and Desktop Publishing	*	A4-2	Followership	*
F2-2	Design Brief: Energy and Power Systems	*	J6-1	Precision Modeling for Manufacturing	*	A5-1	Communication Processes	*
F2-3	Design Brief: Transportation Systems	*	J6-2	3D Solid Modeling	*	A5-2	Communication Techniques: General	*
F2-4	Communication Design Briefs	*	J6-3	3D Parametric Solid Modeling	*	A5-3	Communication Techniques in Practice	*
F2-5	Design Brief: Construction	*	J7-1	3D Modeling Programs: Architecture and Construction	*	A5-4	Speaking Techniques	*
F2-6	Craftsmanship	*	J7-2	3D Modeling Programs: Architecture and Construction Tools	*	A5-5	Active Listening Skills	*
G1-1	Critical Thinking for Design	*	J8-1	Print Reading: ASME Scale	*	A5-6	Persuasive Presentations	*
G1-2	Design Questions	*	J8-2	Print Reading: CAD Symbol Libraries	*	A5-7	Information Resources	*
G1-3	Problem-Solving Techniques	*	J8-4	Print Reading: Plumbing Design	*	A6-1	Skills and Aptitudes Assessments	*
G2-1	Design Features Critique	*	J8-5	Print Reading: Welding Design	*	A6-2	Motivation and Goal Setting	*
G2-2	Environmentally Sensitive Design Features	*	J8-6	Print Reading: Economic Development and Transportation Projects	*	A7-1	Gender Equity	*
G2-3	Environmentally Responsible Designs	*	J8-7	Print Reading: Thread Design	*	A7-2	Diversity in the Workplace	*
G2-4	Professional Behavior	*	J8-8	Print Reading: Maps	*	A8-1	Problem Solving	*
H1-1	Interpersonal Communication	*	J8-9	Print Reading: Graphics	*	A8-2	Critical Thinking	*
H1-2	Interpersonal Dynamics	*	J8-10	Print Reading: Design Materials	*	B1-1	WorkKeys Assessments	*
H1-3	Effective and Efficient Communication	*	J9-1	Demonstrate Principles of Composition	*	B1-2	Test of Adult Basic Education (TABE) Assessments	*
H2-1	Nonverbal Communication	*	J9-2	Demonstrate Principles of Proportion	*	B2-1	Manufacturing-Specific Skills Checklists	*
H2-2	Defend Your Ideas	*	J9-3	Employ Color Theory in Design	*	B2-2	Metalworking Employability Tests	*
H2-3	Presentation Skills: Mediums	*	J9-4	Use of Light and Shadow	*	B2-3	Work Information Resources	*
H2-4	Presentation Skills: Portfolio Development	*	J9-5	Demonstrate Rendering Techniques*	*	C1-1	Basic Machine Tools	*
I1-1	Leadership Skills	*	J9-6	Use of Lines	*	C1-2	Basic Machine Tool Components	*
I1-2	Teamwork	*	J10-1	Drafting and Design Skills: Architectural Applications	*	C1-3	Basic Machine Tool Set-up and Operation	*
I1-3	Mentoring Relationships	*	J10-2	Terminology and Symbols: Mechanical	*	C1-4	Matching Tools to the Job	*
I2-2	Organizational Skills	*	J10-3	Terminology and Symbols: Construction	*	C2-2	Torque	*
J1-1	CAD Software Set-up	*				C3-1	Measurement Tools	*
J1-2	CAD Command Input Options	*				C3-2	Precision Measuring	*
J1-3	Draw Symbols Using Basic CAD Commands	*				C3-3	Print Tolerances	*
J1-4	Basic CAD Commands Used to Draw Objects	*				C3-4	Micrometers and Calipers	*
						C4-1	Mechanical Fasteners	*
						C4-2	Fastener Application	*

C4-3	Proper Tool Selection for Various Fasteners	*	G1-5	Algebra Review	*	D2-1	Solar Resources	*
C4-4	Fastening Tools	*	G1-6	Trigonometry Review	*	D2-2	Passive Solar Systems	*
C4-5	How Torque Affects Fastenings	*	G1-7	Statistical Data	*	D2-3	Active Solar Systems	*
C5-1	<i>Basic Print Components</i>	*	G1-8	Probability	*	D2-4	Photovoltaic Systems	*
C5-2	Lines and Symbols	*	G2-1	Newton's Three Laws of Motion	*	D2-5	Wind Systems	*
C5-3	<i>Two- and Three-Dimensional-View Drawings</i>	*	G2-3	Atoms	*	D2-6	Geothermal Energy: Applications in Building Construction	*
C7-1	General Safety Rules for Lab Machines	*	G2-4	<i>Sound, Light, and Heat Waves</i>	*	D2-7	Biomass Systems	*
C7-2	Safe Lab Practices	*	G5-1	Units of Metric Measurement	*	D3-1	Life Cycle Costs	*
C7-3	OSHA: Impact on Workplace Safety	*	G5-2	Conversions Between Metric and U.S. Standard Measurements	*	D4-1	Life Cycle Qualitative Analysis	*
C8-1	<i>Process Planning</i>	*	G5-3	Metric Measurement: Problem Solving	*	D4-2	Pollution Prevention and Waste Management	*
C8-3	<i>Troubleshooting Processes and Projects</i>	*	G6-1	Internet Searches and Network Connections	*	E1-1	Building Codes	*
C10-1	Basic Hand Tools	*	G6-2	CAD and CAM Products	*	E1-2	Local Codes and Ordinances	*
C10-2	Basic Equipment	*	G6-3	Computer Programming	*	E1-3	Standards and Certifications	*
C10-3	Basic Power Tools	*	G6-4	Communication and Spreadsheet Applications	*	E2-1	Green Construction Elements: Residential and Commercial	*
C11-1	Simple Machines	*				E2-2	Site Sustainability	*
C11-2	Simple Machines: Use in Manufacturing	*	Green and Energy Efficient Construction			E2-3	Water Efficiency	*
C13-1	Materials	*	A1-1	Career Opportunities in Green Construction	*	E2-4	Energy and Atmosphere	*
C13-2	Material Processes	*	A1-2	Green Organizations and Resources	*	E2-5	Materials and Resources	*
D1-1	Create a Drawing Using 3D Computer Modeling Software	*	A2-1	Green Construction Historical Timeline	*	E2-6	Indoor Environmental Air Quality	*
D1-2	Create an Assembly Using 3D Computer Modeling Software	*	A2-2	Trends in Green Construction	*	E2-7	Innovation and Design	*
D1-3	Evaluate 3D Computer Models	*	A2-3	Existing Energy Policy	*	E2-8	Commissioning	*
D2-1	Rapid Prototyping Devices	*	B1-1	Leadership Skills	*	E3-1	Basic Building Science	*
D2-4	Rapid Prototyping Devices: Physical Models	*	B1-2	Critical Thinking and Research Skills*	*	E3-2	Airflow and Heat Transfer	*
D3-1	Computer Simulations	*	B1-3	Communication Skills	*	E3-3	Weatherization: Air Sealing and Insulation	*
D3-4	Computer Simulation Creation	*	B1-4	Green Project Evaluation	*	E3-4	Combustion Safety	*
D4-1	Robots in Everyday Life	*	B1-5	Entrepreneurship and Business Concepts in Green Construction	*	E3-5	Energy Audits and Analyses	*
D4-2	Components of a Robot	*	C1-1	Workplace Math	*	E3-6	Testing Equipment	*
D4-3	History of Robots	*	C1-2	Workplace Science	*	E3-7	Windows and Doors	*
E1-1	Energy Sources	*	C2-1	Distance Estimation	*	E3-8	Heating and Ventilation	*
E1-2	Green Manufacturing	*	C2-2	Materials Estimation	*	E4-1	HVAC Systems: An Introduction	*
E1-3	Sustainable Manufacturing	*	C2-3	Spatial Relationships	*	E4-2	HVAC Systems: Design Issues and Options	*
E1-4	Lean Manufacturing	*	C3-1	Art Drawing Models	*	E4-3	HVAC Systems: Operation and Maintenance	*
E2-1	Nanotechnology: An Introduction	*	C3-2	Blueprint Reading	*	E5-1	Alternative Building Systems: Types	*
E2-2	Nanotechnology: Applications and Uses	*	C3-3	Computer Applications: Green Construction	*	E5-2	Alternative Building Systems: Design Issues and Options	*
E2-3	Nanotechnology: Existing Types	*	C4-1	Safety Skills	*	E5-3	Alternative Building Systems: Operations and Maintenance	*
E3-1	Environmental Manufacturing: An Introduction	*	C4-2	Construction Terminology	*			
E3-2	Environmental Manufacturing: Existing Types	*	C4-3	Construction Tools	*	Graphic Communications		
F1-1	Career Opportunities in Manufacturing	*	C4-4	Carpentry Skills	*	A1-1	Trends in Graphic Communications	*
F1-2	Manufacturing Careers: Programs of Study	*	C4-5	Retrofitting for Energy Efficiency	*	A1-2	Graphic Communications Careers	*
G1-1	Distinguish Between Units of Measurement	*	C5-1	Design Tools	*	A3-1	<i>Economic Sustainability</i>	*
G1-2	Addition and Subtraction	*	C5-2	Building Performance Tools	*	A3-2	<i>Environmental Sustainability</i>	*
G1-3	Multiplication and Division	*	D1-1	Reduce, Reuse, and Recycle (The Three Rs)	*	A4-1	Portfolio Development in Print and Digital Format	*
G1-4	Geometry Review	*	D1-2	Why Reduce, Reuse, and Recycle?	*	A4-2	Human Relations Skills in the Workplace	*
			D1-3	How to Reduce, Reuse, and Recycle	*	A4-3	Customer Service	*
			D1-4	Benefits of Reducing, Reusing, and Recycling	*	D1-1	Web Technologies	*
						D1-2	Web Authoring	*

**BUSINESS, MARKETING, AND
COMPUTER EDUCATION**

A1-1	Configure a PC	*	A6-3	Internet Information Validity	*	A16-3	Medical Technologies	*
A1-2	Discuss Emerging Technologies	*	A7-1	Technical Documents	*	A16-4	Marketing Technologies	*
A1-3	Identify the Uses of Fundamental Business Equipment and Associated Terminology	*	A7-2	Information from “Help” Service	*	A16-5	Banking, Financial Services, and Accounting Technologies	*
A1-4	Equipment Care	*	A8-1	Adapt to Changing Technology	*	A16-6	Networking, Telecommunications, and Webinar Technologies	*
A1-5	Time Management	*	A8-2	Podcasting	*	A16-7	Management and Information Processing Technologies	*
A1-6	Equipment Use	*	A8-3	Types of Computers	*	A16-8	Technology Trends for Entrepreneurs and Small Businesses	*
A1-7	Communicate via Videoconferencing and Teleconferencing	*	A8-4	Role, Usage, and Benefits of Handhelds	*	A16-9	Developing Technologies	*
A2-1	Rebooting	*	A8-5	Cell Phones and Mobile Devices	*	A17-1	Information Resources for Technology Consumers	*
A2-2	Diagnostic Utilities	*	A8-6	Emerging Technologies	*	B1-1	Business Document Summarization	*
A2-3	Peripheral Connections	*	A8-7	Career Opportunities Resulting from New Technologies	*	B1-2	Following Written Directions	*
A2-4	Equipment Troubleshooting Procedures	*	A9-1	Digital Camera Tools	*	B2-1	Keyboard Technique, Speed, and Accuracy	*
A3-1	Install/Uninstall Software	*	A9-2	Photographic Composition	*	B2-2	Compose at the Keyboard	*
A3-2	Convert Documents to Different File Formats	*	A9-3	Digital Imaging Careers	*	B2-5	Open, Rename, and Save Files in a Windows Program	*
A3-3	Create a Web Page Using Microsoft Office Suite	*	A9-4	Copyright, Intellectual Property, Journalistic Integrity of Photo, and Privacy Issues	*	B2-6	Identify Workplace Injuries and Prevention Techniques	*
A3-4	Integrate Microsoft Excel Data into Microsoft Word	*	A9-5	Color, Shading, Saturation, and Brightness Issues	*	B3-4	Letter of Request	*
A4-1	First Impressions	*	A9-7	File Storage Methods and Advantages	*	B3-6	Apply Capitalization Rules	*
A4-2	Memos	*	A10-1	Identify Uses of Databases	*	B3-7	Apply Punctuation Rules	*
A4-3	Prepare E-mails Using E-mail Etiquette	*	A10-2	Design and Enter Data Using MS Access	*	B3-8	Use Correct Grammar and Punctuation	*
A4-4	Business Letters and Envelopes	*	A10-3	Edit Records in an Existing Database	*	B3-9	Sentence Structure	*
A4-5	Uses of Business Letters	*	A10-4	Demonstrate Methods to Query a Database	*	B3-10	Proofreading Symbols	*
A4-6	Various Types of Reports	*	A11-1	Identify the Purpose of Spreadsheets	*	B3-11	Proofread Business Documents	*
A4-7	Reports in MLA Format	*	A11-2	Create a Simple Spreadsheet Using Text, Simple Formulas, Numbers	*	B4-1	Use U.S. and Metric Measurements	*
A4-8	Reports in APA Format	*	A11-3	Demonstrate Formatting Issues for All Parts of the Spreadsheet	*	B4-2	Unit Pricing	*
A4-9	Reports in Standard Report Format	*	A11-4	Demonstrate the Benefits of Using Spreadsheet Formulas	*	B4-3	Simple Interest Applications	*
A4-10	Outlines	*	A11-5	Design Charts and Graphs Using Spreadsheet Data	*	B4-4	Compound Interest Applications	*
A4-11	Table of Contents	*	A11-6	Format Charts and Graphs Using Spreadsheet Data	*	B4-5	The Touch Method for Numeric Keypads	*
A4-12	Works Cited Page	*	A12-1	Technology Concepts and Trends	*	B4-6	ATM Banking	*
A4-13	Agendas	*	A12-2	Technology and Work Environments	*	B4-7	Online Banking	*
A4-14	Minutes	*	A12-3	Social Media Tools	*	B4-8	Banking Options	*
A4-15	Prepare PowerPoint Designs	*	A13-1	Identify Historically Significant Technology Developments	*	B5-1	Develop a Keyword Résumé	*
A4-16	Incorporate Graphics in PowerPoint Documents	*	A14-1	Describe the Socioeconomic Consequences Associated with Technology	*	B5-2	Identify and Describe Financial Terms Used in Media	*
A4-17	Block Style Business Letters	*	A14-2	Technology’s Environmental Impact	*	B5-3	Personal Financial Documents: Checking Account	*
A4-18	Modified Block and Simplified Block Business Letters	*	A14-3	Legal Regulations for Technology	*	B5-4	Determine Budgeting Concepts	*
A4-19	Number 10 Business Envelopes for First-Class and Other USPS Options	*	A15-1	Determine Factors That Influence Global Business	*	B5-5	Identify Personal Checking Account Needs	*
A5-1	Recognize Threats to PC Security	*	A15-2	Summarize Global Business Opportunities	*	B5-6	Determine Sources of Credit	*
A5-2	Recognize Risky Internet Activities	*	A15-3	Determine the Advantages and Pitfalls of Investing in Global Markets	*	B5-7	Evaluate the Concept of Borrowing Money	*
A5-3	Model Proper Management of Copyrighted Materials	*	A16-1	History of Business Technology	*	B5-8	Compare Various Types of Investments	*
A5-4	Evaluate the Impact of Internet Social Networks on Future Personal and Business Endeavors	*	A16-2	Technology Markets	*	B5-9	Business Terminology within the Career Clusters	*
A5-5	Internet Theft and Fraud	*				B5-10	Personal Financial Documents: Check Registers and Bank Statements	*
A6-1	Utilize Meta Search Engines	*				B6-1	Identify Personal Financial Goals	*
A6-2	Basic Internet Search Techniques	*				B6-2	Borrowing Money	*

B6-3	Determine the Sources of Credit Through the Use of Credit Cards	*	C10-3	Determine the Benefits and Risks of Research and Development to Small and Medium-Sized Businesses	*	E3-7	Determine Proper Business Workplace Attire	*
C1-1	Identify Business Goals: Profit	*				E4-1	Workplace Organization and Management Techniques	*
C1-2	Show the Need for Profit	*	C10-4	Research and Development for International Business	*	E4-3	Determine Cost of Misused Time	*
C1-3	Company Actions with Profits/Losses	*	D1-1	Identify Basic Communication Skills	*	E5-1	Positive and Negative Criticism	*
C2-1	Explain the Role of Marketing	*	D1-2	Communication Techniques	*	E5-2	A Positive Attitude	*
C2-2	Define the Role of Advertising	*	D1-3	Active Listening Techniques	*	E5-3	Stress Management Techniques	*
C2-3	Demonstrate the Importance of the Various Advertising Techniques	*	D1-4	Note-Taking Skills	*	E6-1	Conflict Resolution Techniques	*
C2-4	Distribution in Marketing	*	D3-1	Demonstrate Proper Business Etiquette: Phone, Email, and Message Taking	*	E6-2	Conflict Resolution Case Studies	*
C2-5	Demonstrate a Knowledge of Product Pricing and Target Marketing Strategies	*	D3-2	Demonstrate Proper Business Etiquette: Face-to-Face Meetings	*	E6-3	Workplace Violence	*
C2-6	Recognize Marketing Strategies	*	D4-1	Demonstrate Appropriate Uses of Informal Business Writing	*	E6-4	Preventive Management Techniques	*
C3-1	Interpret Levels and Roles on Organizational Charts	*	D4-2	Demonstrate Appropriate Writing Styles for Business Email and Text Messages	*	E7-1	Initiative and Self-Motivation	*
C3-2	Analyze the History and Roles of Labor Unions	*	D4-3	Prepare a Formal Message Using an Informal Writing Style	*	E7-2	Evaluations and Self-Evaluations	*
C4-1	Identify the Advantages and Disadvantages of Sole Proprietorship	*	D5-1	Nonverbal Cues	*	E7-4	Problem Solving Defined	*
C4-2	Identify the Advantages and Disadvantages of Partnerships	*	D6-1	Meetings and Discussions	*	E7-5	Problem-Solving Methods	*
C4-3	Identify the Advantages and Disadvantages of Corporations	*	D6-2	Decisions, Action Plans, Outcomes, and Follow-up from Meetings	*	E9-1	Social Skills: Workplace Colleagues	*
C4-4	Identify the Advantages and Disadvantages of Owning a Franchise	*	D7-1	Determine Individual Personality Preference and the Preferences of Others	*	E9-2	Social Skills: Customers	*
C4-5	Differentiate Between "For Profit" and "Not for Profit" Organizations	*	D7-2	Determine Stages of Teamwork Evolvement	*	E9-4	Demonstrate Respect in a Team Setting	*
C5-1	Identify the Purpose of a Business Plan	*	D7-3	Team Roles and Brainstorming	*	E10-1	Socially Committed Businesses	*
C5-2	Identify the Components of a Business Plan	*	D7-4	Work with a Team	*	E10-2	Civic Responsibilities of Businesses	*
C5-3	Assessment and Creation of Business Plans	*	D7-5	Develop Human Relations Skills in the Workplace	*	E10-5	Community-Based Projects	*
C6-1	Record-Keeping Methods	*	D7-6	Identify the Benefits and Pitfalls of Working on a Team	*	E11-1	Describe Ethics in Business	*
C6-2	Identify Net Worth, Cash Flow, Income Statements, and Computerized Record Keeping	*	D7-7	Evaluate Successful Team-Based Businesses	*	E11-2	Business Ethics	*
C6-3	Budgets and Financial Analysis Records	*	D8-1	Presentations: Technology Tools	*	E12-1	Develop Goals	*
C6-4	Identify Strengths and Weaknesses of Businesses by Reviewing Financial Statements and Reports	*	D8-2	Presentations: Delivery Strategies	*	E12-2	Junior Achievement	*
C7-1	Manual File Management	*	D8-3	Presentations: Business	*	E12-3	Career Path Selection	*
C7-2	Electronic File Management	*	D8-4	Presentations: Elements of a Persuasive Message	*	E12-4	Research Careers, Identify Career Pathways of Interest, and Work Skills Needed	*
C7-3	Determine the Uses and Benefits of a Database Management System	*	E1-1	Determine Time Management Components	*	E12-5	Career Interest Interview	*
C8-1	Identify the Aspects of a Changing Global Marketplace	*	E1-2	Meet Deadlines	*	E12-6	Goal-Driven Career Plan	*
C8-2	Explain the Advantages and Disadvantages of a Changing Global Marketplace	*	E1-3	Identify Consequences of Not Meeting Deadlines	*	E12-7	Cooperative Education	*
C9-1	Interpret Supply and Demand Charts and Their Impact on the Economy of the Business	*	E2-1	Recognize and Appreciate Different Personalities	*	E13-1	Career Networking Strategies	*
C10-1	Identify Research and Development Methods	*	E2-2	Appreciate Cultural Differences	*	E13-2	Networking Strategies	*
C10-2	Research and Development Techniques	*	E2-3	Tolerance and Conflict Resolution	*	E14-1	Education for a Job	*
			E2-4	Recognize Cultural Differences	*	E14-2	Career Advancement Strategies	*
			E3-1	Obtain Education for a Job	*	E14-3	Sources of Learning	*
			E3-2	Identify Occupational Competencies	*	F1-1	Student Business Organizations	*
			E3-3	Find a Job	*	F2-1	FBLA Opportunities	*
			E3-4	Apply for a Job	*	F2-2	Degrees, Awards, and Contests	*
			E3-5	Write a Résumé and Letter of Application	*	F3-1	Student Organization Officer Duties and Responsibilities	*
			E3-6	Succeed in a Job Interview	*	F3-2	Manage an Organizational Meeting	*
						G1-1	Writing with the Five Ws	*
						G1-2	Outline Techniques	*
						G1-3	Write, Edit, Rewrite	*
						G1-4	Writing Mechanics	*
						G1-5	Proofreading Techniques	*
						G2-1	Valid Sources of Information	*
						G2-2	Facts and Opinions	*
						G2-3	Research Citations	*
						G2-4	Plagiarism	*

G3-1	Responses to a Variety of Job Application Questions	*	I2-1	Basic Arithmetic Skills with a Business Inventory	*	A8-3	Accepted Testing Methodologies	*
G3-2	Responses to Possible Interview Scenarios	*	I2-2	Mental Math Estimation	*	A8-4	Test Data and Test Cases	*
G3-3	Cover Letters for a Variety of Jobs	*	I2-3	Fraction and Percent Applications	*	B2-1	Industry-Standard Animated Works	*
G3-4	Professional Résumés	*	I2-4	Data Collection	*	B2-2	Animated Action	*
G3-5	Interview Follow-up and Thank-You Letters	*	I3-1	Problem Identification and Solution	*	B2-3	Game Animation	*
G3-6	Resignation Letters	*	I3-2	Data Analysis	*	B3-1	Industry-Standard Audio, Dialogue, and Background Scores	*
G4-1	Professional Business Report Formats	*	I3-3	Spreadsheet Basics	*	B3-2	Industry-Standard Sound and Sound Effects	*
G4-2	Charts for Business Reports	*	I3-4	Graphic Displays	*	B3-3	Sound Effects	*
G4-3	Business Memo Components	*	Video Game Programming			B3-4	Sound Effects for a Game	*
G4-4	Professional Business Letters	*	A1-1	Object-Oriented Programming Terms	*	B4-2	Simple Game Environments	*
G4-5	Professional Emails and Text Messages	*	A2-1	Apply Basic Math Skills to Create Scoring Schemes in a Simple Game	*	B4-3	Character Sprites for a 2D Game	*
G4-6	Write Instructions for Various Business Operations	*	A3-1	Variable Types in C++	*	B4-4	Background Tile Sprites for a 2D Game Environment	*
G5-1	Persuasive Writing	*	A3-2	Variable Requirements for a Specific Game Design	*	B4-6	Texture Map Creation	*
G5-2	Sales and Marketing Letters and Flyers	*	A3-3	Programs That Perform Simple Console Input/Output Operations	*	C1-1	Evolution of Game Console Technology	*
G5-3	Print and Online Marketing Materials	*	A3-4	Text-Based Games Utilizing Variables in C++	*	C1-2	Early and Modern Video Games	*
G5-4	Situational Writing	*	A3-5	Situations in Which Decisions Are Required	*	C1-3	Game-Play Experiences Journal	*
H1-1	Pre-reading Activities	*	A3-6	Text-Based Games That Implement a Simple IF Statement	*	C1-4	How People Interact with Technology	*
H1-2	Main Idea	*	A3-7	Text-Based Games That Implement a Nested IF Statement	*	C1-5	Game Genres and Categories	*
H1-3	In-Class Reading	*	A3-8	Loop Structures	*	C1-6	Games, the Game Industry, and Game Technology	*
H1-4	Graphic Organizers	*	A3-9	“For” Looping Statements in a Simple Text-Based Game	*	C2-5	Visual Borrowing Techniques	*
H1-5	Common Core Before-Reading Activities	*	A3-10	“Do-While” Looping Statements in a Simple Text-Based Game	*	C2-6	Simple Game Design Document	*
H1-6	Common Core During-Reading Activities	*	A3-11	“While” Looping Statements in a Simple Text-Based Game	*	C3-1	Current and Future Game Trends	*
H1-7	Common Core After-Reading Activities	*	A3-12	Text-Based Menus Using Switch Statements	*	C4-1	Storyboard Process	*
H2-1	Personal Business Vocabulary	*	A3-13	Modularization Using C++ Functions	*	C4-3	Storyboarding	*
H2-2	Computer Concepts Vocabulary	*	A3-14	Simple Text-Based Games That Implement User-Created Functions	*	C4-4	Storyboard Examples and Role Playing	*
H2-3	Summarization	*	A3-15	Single- and Multi-Dimensional Arrays	*	D1-1	Instructions and a Story Based on a Known Game	*
H2-4	Writing Exercises	*	A3-16	Single-Dimensional Arrays	*	D1-2	Instructions and a Story Based on a Known Game as a Team	*
H3-1	Authors’ Viewpoint	*	A3-17	Two-Dimensional Arrays	*	G3-1	Employee Skill Requirements for Various Game Development Jobs	*
H3-2	Financial Statement Interpretation	*	A3-18	Object Creation	*	G4-1	Market Pricing of a Video Game	*
H3-3	Inferences	*	A3-20	Common Syntax Errors	*	G4-2	Marketability	*
H3-4	Effective Advertising	*	A4-1	History, Benefits, and Purpose of Adobe Flash	*	G4-6	Selling Cost of a Game	*
H3-5	College and Career Requirements	*	A4-2	Components of the Flash Environment	*	H3-1	Personal Values and Goals	*
H3-6	Criteria for Effective Marketing Plans	*	A4-3	Timelines in Flash	*	H3-2	Long-Term Goals	*
H3-7	Criteria for Effective Business Plans	*	A4-4	Movie Creation Process in Flash	*	H4-1	Professional Development Standards	*
H4-2	Warranties	*	A4-5	Ability to Tween	*	H4-2	Ongoing Professional Development	*
H4-5	Credit Card Agreements and Finance Terms	*	A4-6	Symbol Creation in Flash	*	H5-1	Written Self-Evaluation	*
H4-6	Rental Contracts	*	A5-1	SDKs for Game Development	*	I1-2	Gaming Industry: Job Descriptions	*
H4-7	Benefit and Compensation Packages	*	A5-2	Tools and Game Engines	*	I2-3	Postsecondary Gaming Programs	*
H4-8	Loan Language	*	A6-1	Game Development Roles	*	Paralegal Services		
I1-1	Make Change for a Customer	*	A8-2	Types of Errors	*	A1-1	Government: Structure and Functions	*
I1-2	Checking Account Reconciliation	*				A1-2	Law	*
I1-3	Budget Preparation and Interpretation	*				A1-3	Statutes and Common Law	*
I1-4	Financial Investments	*				A1-4	American Court System	*
						A2-1	Office Clerical Positions	*
						A2-2	Paralegal	*

A2-3	Law Office Manager	*
A2-4	Lawyer	*
A2-5	Judge	*
A3-1	Rules of Professional Conduct	*
A3-2	Confidentiality	*
A3-3	Unauthorized Practice of Law	*
A3-4	Legal Malpractice	*
A4-1	Critical Thinking and Problem Solving	*
A4-2	Self-Motivation and Initiative	*
A4-3	Professional Image	*
A4-4	Interpersonal Skills	*
A4-5	Office Skills	*
A5-1	Criminal Practice	*
A5-2	Civil Practice	*
A5-3	Administrative Practice	*
A5-4	Corporate Practice	*
A5-5	Business Structures	*
B1-1	Federal Court System	*
B1-2	Illinois State Court System	*
B1-3	Administrative Agencies	*
B1-4	Alternative Dispute Resolution Options	*
B2-1	Criminal Actions and Types of Crime	*
B2-2	Arrest Procedures	*
B2-4	Criminal Trial Procedures Part A	*
B2-5	Criminal Trial Notebook	*
B2-6	Criminal Post-Trial Duties of a Paralegal	*
B2-7	Criminal Trial Procedures Part B	*
B2-3	Criminal Pre-Trial Procedures	*
B3-1	Tort Law	*
B3-2	Civil Pre-Trial Procedures	*
B3-3	Civil Trial Procedures	*
B3-4	Civil Trial Notebook	*
B3-5	Civil Post-Trial Duties of a Paralegal	*
C1-1	Goals and Tasks	*
C1-2	Time-Keeping and Billing Practices	*
C1-3	Docket Control Practices	*
C2-1	Simple and Compound Interest	*
C2-2	Decimals and Percentages	*
C2-3	<i>Business Budget Overview</i>	*
D1-1	Meeting and Presentation Skills	*
D1-2	Conflict Resolution Techniques	*
D1-3	Dictation Skills	*
D2-1	Grammar Practice	*
D2-2	Composition Skills	*
D2-3	Legal Writing	*
D2-4	Proofreading Skills	*
D3-1	Client Services	*
D3-2	Client Interview	*
D4-1	<i>Legal Research 101</i>	*
D4-2	<i>Legal Research 102</i>	*
D4-3	<i>Case Law Research</i>	*

HEALTH SCIENCE TECHNOLOGY

A1-1	Health Care Systems: Providers	*
A1-2	Health Care Systems: Major Services	*
A1-3	Health Care Systems: Trends	*
A1-4	Health Care Systems: Government and Nonprofit Agencies	*
A1-5	Health Care Systems: Health Care Payment Systems	*
A1-6	Development of National Health Care	*
A1-7	History of National Health Care	*
A1-8	History of Health Science	*
B1-1	Identify National Health Care Skills Standards	*
B2-1	Health Science Career Pathways	*
B2-2	Career Searches	*
B2-3	It's All Academic	*
B2-4	Let's See Your Credentials	*
B3-1	Career Portfolio	*
B3-2	Learning Styles and Multiple Intelligences	*
B3-3	Career Planning	*
B3-4	Write a Résumé	*
B3-5	Employment Resources and Job Advertisements	*
B3-6	Complete a Job Application	*
B3-7	Prepare for an Interview	*
B3-8	Leadership Skills	*
C1-1	Practice Good Health	*
C1-2	Professional Attire	*
C1-3	Teamwork	*
C2-1	Examine Cultural Differences	*
C2-2	Examine Religious Differences	*
C3-1	Demonstrate an Understanding of Problem Solving	*
D1-1	Identify the Four Sources of Law	*
D1-2	Examine Legal Torts	*
D1-3	Determine Behaviors and Practices That Could Result in Legal Action	*
D1-4	Identify Risk Management and Documentation Strategies	*
D2-1	Examine Patient's Rights and Responsibilities	*
D2-2	Examine Legal Implications of Confidentiality	*
D2-3	Examine Legal Implications of Advance Directives	*
D2-4	Identify Mandated Standards	*
D3-1	Differentiate Between Morality and Ethics	*
D3-2	Differentiate Between Personal, Professional, and Organizational Ethics	*
D3-3	Understand Bio-ethical Issues Related to Health Care	*
D3-4	Examine Implications of Medical Ethics	*
E1-1	Introduce Communication	*

E1-2	Communication Techniques	*
E1-3	Speaking Skills	*
E1-4	Listening Skills	*
E1-5	Use Communication Skills Appropriately in the Workplace	*
E2-1	Whole Numbers, Fractions, Decimals, and Percentages	*
E2-2	Using English, Metric, and Apothecary Measurements	*
F1-1	Describe the Distinguishing Features of the Integumentary System	*
F1-2	Understand the Anatomy and Physiology of the Epidermis	*
F1-3	Understand the Anatomy and Physiology of the Dermis	*
F1-4	Understand the Anatomy and Physiology of the Hypodermis	*
F1-5	Understand Hair as an Accessory Organ of the Integumentary System	*
F1-6	Understand Nails as an Accessory Organ of the Integumentary System	*
F1-7	Understand Skin Glands as Accessory Organs of the Integumentary System	*
G1-1	Understand the Components of the Skeletal System	*
G1-2	Understand the Components of the Muscular System	*
G1-3	Identify the Structure of the Muscular System	*
H1-1	Understand the Organs of the Respiratory System	*
H1-2	Understand the Exchange of Gasses in the Lungs	*
H2-1	Chronic Obstructive Pulmonary Disease (COPD)	*
H2-2	Infectious Diseases of the Lungs	*
H2-3	Lung Cancer	*
I1-1	The Anatomy of the Heart	*
I1-2	Blood Vessels of the Cardiovascular System	*
I1-3	The Structure and Function of the Cardiovascular System	*
I1-4	Diseases and Disorders of the Cardiovascular System	*
J1-1	Organs of the Gastrointestinal System	*
J1-2	Gastrointestinal System Accessory Organs	*
J1-3	Chemical Digestion and Absorption	*
J2-1	Disorders of the Esophagus and Stomach	*
J2-2	Gastrointestinal System Accessory Organ Disorders	*
J2-3	Intestinal Disorders	*
J3-1	Anatomy of the Liver	*
J3-2	Functions of the Liver	*
J3-3	Diseases and Disorders of the Liver	*
K1-1	Anatomy of the Kidney	*

K1-2	Anatomy of the Organs of Urinary Transport	*	S1-2	Transmission and Growth of Microorganisms	*	A2-4	Resources to Complete AED Certification	*
K2-1	Urine Characteristics	*	S2-1	Hand Washing	*	A3-1	Telephone and Email Etiquette	*
K2-2	Urine Specimens	*	S3-1	Standard Isolation Precautions	*	A3-2	Communication Strategies	*
K3-1	Urinary Incontinence	*	S3-2	Transmission-Based Precautions	*	A3-3	Verbal and Nonverbal Cues	*
K3-2	Catheters and Bladder Training Programs	*	S3-3	Personal Protective Equipment: Gloves	*	A3-4	Patients' Stated Symptoms and Complaints	*
K4-1	Kidney Disorders	*	S3-4	Personal Protective Equipment: Gown and Mask	*	A4-1	Scope of Practice	*
K4-2	Urinary Tract Disorders	*	S3-5	Personal Protective Equipment: Caps and Eyewear	*	A4-2	Legal and Ethical Standards	*
L1-1	Female Organs of the Reproductive System	*	S3-6	Sterilization: Using the Autoclave	*	A4-3	Workplace Behaviors	*
L1-2	Male Organs of the Reproductive System	*	T1-1	Basic Physical Examination Standards	*	A4-4	Cultural Diversity Issues	*
L2-1	Gestation	*	T1-2	Client Status Measures	*	A4-5	Patient Advocacy	*
L2-2	Labor and Delivery	*	T1-3	Breast and Testicular Self-Examination	*	A4-6	Professional Organizations	*
L2-3	Pregnancy Disorders	*	T1-4	Fitness Assessment	*	A4-7	Patient Rights: Birth to Age 18	*
L3-1	Male Reproductive System Disorders	*	U1-1	Basic Nutrition for Age Groups and Patient Populations	*	A4-8	Patient Rights: Ages 19 to 54	*
L3-2	Female Reproductive System Disorders	*	U1-2	Nutrition for Good Heart Health	*	A4-9	Patient Rights: Ages 55+	*
L3-3	Identify Sexually Transmitted Diseases	*	U1-3	Stress Factors Affecting Health and Wellness	*	A4-10	Holistic Care Strategies	*
M1-1	Glands of the Endocrine System	*	U1-4	Health Care Provider Choices	*	A4-11	Problem-Solving Skills: Case Studies	*
M1-2	Identify the Appropriate Endocrine Hormones with Their Corresponding Glands	*	U1-5	Human Needs: Wellness	*	B1-1	Computer Skills	*
M2-1	Thyroid Gland Disorders	*	U1-6	Alternative Therapies and Medicines	*	B1-2	Patient Scheduling	*
M2-2	Adrenal Gland Disorders	*	U1-7	Principles of Health Promotion and Illness Prevention	*	B1-3	Chart Preparation	*
M2-3	Pituitary Gland Disorders	*	U1-8	Crisis Prevention	*	B1-4	New Patient Information	*
M2-4	Pancreas Disorders	*	U1-9	Health Risks	*	B1-5	Patient Records	*
N1-1	The Purpose of the Nervous System	*	U1-10	Coping with Work Stress	*	B1-6	Report Protocols	*
N2-1	Neurons	*	U1-11	Patient Injury Prevention	*	B1-7	Patient and Office Records	*
N3-1	Central Nervous System	*	U1-12	Components of a Healthy Lifestyle	*	B1-8	Inventory Control	*
N3-2	Peripheral Nervous System	*	U1-13	Self-Esteem	*	B1-9	Pre-Hospital Patient Care Report Writing (SOAPE)	*
N3-3	Autonomic Nervous System	*	U1-14	Coping with Loss and Grief	*	B2-1	Office and Lab Equipment: Open and Close, Start-Up and Shut-Down	*
N4-1	Nervous System Disorders	*	V1-1	Estimate and Calculate Body Surface Area	*	B2-2	Office Environment	*
N4-2	Nervous System Inflammatory Diseases	*	V1-2	Pediatric Body Surface Area and Medication Dosages	*	B2-3	Office Correspondence	*
N4-3	Nervous System Degenerative Diseases	*	V1-3	Calculate Medication Dosages	*	B2-4	Checklists and Protocols	*
N4-4	Nervous System Injuries	*	V1-4	Drug Dosage Calculations: Percent Solutions	*	B3-1	Pre-certification, Third-Party Administration, and Managed-Care Plans	*
O1-1	Lymphatic/Immune System Structures	*	V1-5	Temperature Conversions	*	B3-2	Billing and Coding	*
O1-2	Immune Response Reaction	*	V1-6	Body Mass Index Measurements	*	C1-2	Medical Math	*
O1-3	The Diseases and Disorders of the Lymphatic/Immune System	*	V1-7	Height Measurement Conversions	*	C1-3	Infection Control Practices	*
P1-1	Life Stages	*	V1-8	Scientific Notation	*	C2-3	Patient Intake Duties: Vital Signs, Measurements, and Patient History	*
P1-2	Human Needs: Growth and Development	*	Medical Assisting			C3-2	EKG: Importance of an EKG	*
P1-3	Satisfying Human Needs	*	A1-1	Student Strengths	*	C3-8	Charting and Documentation Duties	*
Q1-1	Nutrition	*	A1-2	Medical Assistant Specialties	*	C4-1	Patient Education as Directed	*
Q1-2	MyPlate	*	A1-3	Work-Based Learning	*	C4-2	Maslow's Hierarchy and Kohlberg's Moral Order of Needs	*
Q1-3	Special Dietary Needs	*	A2-1	Resources to Complete Basic First-Aid Certification	*	C5-1	Asepsis and Medical Asepsis	*
R1-1	Patient and Employee Safety: Principles of Body Mechanics	*	A2-2	Resources to Complete Advanced First-Aid Certification	*	C5-2	Pathogen Transmission Prevention	*
R1-2	Governmental Safety Regulations	*	A2-3	Resources to Complete CPR Certification	*	Pharmacy Technician		
R1-3	Accident and Injury Prevention	*				A1-4	Professional Pharmacy Organizations: State and National Levels	*
S1-1	Identify Various Classes of Microorganisms and Disease	*				A2-1	Pharmacy Vocabulary and Abbreviations	*
						A3-1	Drug Calculations	*

A3-2	Ratio, Proportion, and Dimensional Analysis	*	B2-3	Effective Speaking Techniques	*	E1-2	Practice Effective Communication Skills	*
A3-3	Measurement and Temperature Conversions	*	B2-4	Listening Techniques	*	E1-3	Use Effective Communication Skills for the Situation	*
A3-4	Dosage Calculation	*	B2-5	Persuasive Messages: Organizing and Presenting	*	E1-4	Problem-Solving Techniques	*
A7-1	Career Opportunities	*	B2-6	Communication Skills in Appropriate Situations	*	E1-5	Deliver a Speech, Prepared Message, Presentation	*
A7-2	Work-Based Learning Opportunities	*	B3-1	English and Metric Measurements	*	E1-6	Interviews: Procedures and Techniques	*
D1-1	Prescription Processing	*	B3-2	Area and Volume	*	E1-8	Interviews: Three Random Questions	*
Emergency Medical Services			B3-3	Interest Rate Calculations	*	E2-1	Nonverbal Communication	*
A2-1	Personality Traits	*	B4-1	Problem Solving	*	E2-2	Interpret Pattern Envelope Charts	*
A2-2	Soft Skills	*	B4-2	The Problem-Solving Method of Learning	*	E2-3	Manipulate Charts, Graphs, Recipes, Patterns, Floor Plans, and Flow Charts	*
A2-3	<i>Basic Physiology and Anatomy</i>	*	B5-1	Transition Skills in Family and Consumer Science Occupations	*	E2-4	Read Audience, Colleague, and Customer Body Language	*
B2-5	Cardiac Anatomy	*	B6-1	Ethics in Business	*	E3-1	Memo Composition	*
B2-6	Cardiac Physiology	*	B7-1	Goal Setting	*	E3-2	Electronic Communication Strategies	*
B2-7	Basic Cardiovascular Pathophysiology	*	B7-2	Education for a Job	*	E3-3	Employer and Corporate Contact Strategies	*
B2-8	Cardiovascular Emergencies	*	B7-3	Occupational Competencies	*	E3-4	Résumé with Cover Letter	*
B2-9	Respiratory Anatomy	*	B7-4	Job Search Strategies	*	E3-5	Job Application Strategies	*
INTRODUCTION TO FCS CAREERS			B7-5	Job Applications	*	E3-6	Business Script Writing	*
A1-1	Food Science Careers	*	B7-6	Résumés and Letters of Application	*	E3-7	Basic Menu Writing	*
A1-2	Major Food Nutrients	*	B7-7	Job Interview Techniques	*	E3-8	Catering and Carry-Out Brochure Writing	*
A1-3	How Diet Impacts Health	*	B7-8	Conflicts and Their Resolution	*	E3-9	Letter of Complaint	*
A2-1	Food Additives and Safety Laws	*	B8-1	Where Accidents Occur and Agencies Associated with Workplace Safety	*	F1-1	Career Interests and Aptitudes	*
A3-1	Prevention of Food Spoilage	*	B8-2	Why Accidents Occur and How to Prevent Them	*	F1-2	Careers in the Food Industry	*
A3-2	Food-Borne Illnesses and Their Prevention	*	C1-1	Family, Career and Community Leaders of America (FCCLA)	*	F1-3	Careers in the Hospitality Industry	*
A4-1	Food Sanitation Basics	*	C1-2	FCCLA: Facts and National Programs	*	F1-4	Careers in the Clothing Industry	*
A4-2	Personal Hygiene and Food Processing	*	C1-3	FCCLA Meetings: Preparing and Conducting	*	F1-5	Careers in Personal Services	*
A4-3	Food Processing Equipment Sanitation Standards	*	C1-4	The FCCLA Planning Process	*	F1-6	Careers in Human Growth and Development	*
A4-4	Safe Food Storage at Home	*	D1-1	Exhibit a Positive Work Attitude	*	F1-7	Careers in Consumerism	*
A4-5	Safe Food Handling and Preparation at Home	*	D1-2	Manage Time	*	F1-8	FCS Careers	*
A5-1	Food Packaging	*	D1-3	Be Responsible on the Job	*	F1-9	Evaluate Products Using Industry Standards	*
A5-2	Food Packaging: Materials and Forms	*	D1-4	Dress for the Job	*	F2-1	Self-Employment Opportunities	*
A5-3	Food Label Requirements	*	D1-5	Use SOPs (Standard Operating Procedures)	*	F2-2	Entrepreneurial Skills	*
A5-4	Food Label Information	*	D1-6	Adapt to a Changing Environment	*	F2-3	Career Planning	*
A6-1	Food Safety Risks: Physical, Biological, and Chemical	*	D1-7	Develop Self-Management Techniques	*	F2-4	Business Plans	*
A6-2	Food-Related Carcinogens	*	D1-8	Demonstrate Various Problem-Solving Processes	*	F2-5	Marketing Plans	*
A6-3	U.S. Food Regulatory Agencies	*	D2-1	Team Settings	*	G1-1	Use Appropriate FCS Vocabulary	*
A7-1	Food Preference Patterns: Cultural and National	*	D2-2	Teams and Diversity	*	G1-2	Demonstrate Basic Recipe Terminology Skills	*
A7-2	Organically Produced Foods	*	D2-3	Teams and Cooperation	*	G2-1	Mathematics Skills Used in FCS Occupations	*
A7-3	New Food Product Development	*	D3-1	Customer-Service Techniques	*	G2-2	Basic Arithmetic Skills	*
B1-1	Self-Understanding and Assessment	*	D3-2	Confidentiality Laws	*	G2-3	Basic Mathematics Skills: Simple and Compound Interest	*
B1-2	Human Relations Skills in the Workplace	*	D3-3	Keep Employee/Employer/Customer Information Confidential	*	G2-4	Measurement Skills	*
B2-1	Introduction to Communication	*	D3-4	Consumer/Customer Responsibilities	*	G2-5	Mathematical Components: Evaluating Elements and Principles of Design	*
B2-2	Effective Communication Techniques	*	D3-5	Address Consumer/Customer Complaints	*	G2-6	Basic Mathematics Skills: Food Service and Lodging Applications	*
			E1-1	Identify Communication Skills	*			

G3-1	Identify Science Skills Used in FCS Occupations	*	B1-4	Principles of Design	*	B2-4	Healthy Eating Guidelines and Food Preparation Techniques	*
G3-2	Demonstrate Science Skills Used in the Food Industry	*	C1-1	Basic Business and Customer Service Skills	*	B3-1	<i>Sensory Perception</i>	*
G3-3	Science Skills in the Hospitality Industry: Environmental Practices	*	C1-2	Body Types, Sizes, and Fit	*	B3-2	Properties and Applications of Flour and Sugar	*
G3-4	Science Skills in the Clothing and Fashion Merchandising Industry	*	C1-3	Client Demographics	*	B3-3	The Science of Thickening Agents	*
G3-5	Demonstrate Science Skills Used in the Human Growth and Development Industry	*	C1-4	Social Awareness	*	B3-4	<i>Organic Products</i>	*
G3-6	Science Skills in the Personal Care Industry: Hair, Skin, Nails, and Spas	*	C2-1	Computer Applications	*	B3-5	The Properties of Fat	*
G3-7	Science Skills in the Personal Care Industry: Nutrition, Weight Control, and Rehabilitation Techniques	*	C2-2	Basic World Languages	*	B3-6	Protein Cookery	*
G3-8	Science Skills in the Hospitality Industry: Scientific Management of Production, Fabrics, and Cleaning	*	C2-3	Business Math	*	B3-7	Leavening Agents	*
G4-1	Practice Sanitation Standards That Prevent Biological Hazards	*	C3-1	Business Plan Elements	*	B3-8	Emulsions	*
G4-2	Identify OSHA Standards: Physical and Chemical Hazards	*	C3-2	Basic Elements of Business Law	*	B3-9	pH in Cooking	*
G4-3	Follow Safety Procedures and Accident Prevention Techniques	*	C3-3	Budget Development	*	B3-11	Brining Techniques	*
G5-1	Standards of Personal Hygiene	*	C3-4	Employee Recruitment	*	B3-12	<i>Curing Techniques</i>	*
G5-2	Basic Workplace Sanitation Procedures	*	C3-5	Employee Training	*	B3-13	Sugar Crystallization	*
G5-3	Personal Hygiene Standards	*	C3-6	Employee Scheduling	*	B3-14	Enzymatic Browning	*
G6-1	Community Resources	*	C3-7	Employee Management	*	B3-15	Molecular Gastronomy Techniques	*
G6-2	Individual and Team Tasks	*	C4-4	Visual Merchandising Displays	*	B4-1	Waste Management	*
G6-3	Etiquette Skills	*	C4-5	Product Promotion	*	B4-2	Sustainable Products	*
G6-4	Cultural Differences	*	C4-6	Sales Tips and Techniques	*	B4-3	Minimize Carbon Footprint Emissions	*
G6-5	Culture and Food	*	C5-3	Add-on and Upselling Techniques	*	C1-1	Proper Hygiene	*
H1-1	FCS Technology	*	D1-1	Verbal and Nonverbal Communication Skills	*	C1-2	Wear Professional Attire	*
H1-2	FCS Technology and Equipment	*	D1-2	Public Speaking Skills	*	C2-1	Kitchen Safety Procedures	*
H1-3	Web 2.0 Technology Skills Development	*	D1-3	Electronic Communication Skills	*	C2-2	Fire Safety Procedures and SOPs	*
H1-4	Online Inquiry Tools	*	D1-4	Interview Skills	*	C2-3	Kitchen Tool and Equipment Safety	*
H1-5	Online Tools to Troubleshoot Technology Problems	*	D1-5	Networking Skills and Methods	*	C2-4	Basic First Aid	*
H2-1	Technology Research of Health and Nutrition Issues	*	D3-1	Professional Development	*	C3-1	Food Storage Techniques	*
H2-2	FCS Technology Activities	*	D3-2	Self-Assessment	*	C3-2	Food Storage Temperatures	*
H2-3	Floor Plans	*	D3-3	Work Ethics and Professional Expectations	*	C4-1	Professional Knife Skills	*
Textiles and Design			Foods, Nutrition, & Culinary Arts			C4-4	Moist Cooking Methods	*
A1-1	Natural Fibers	*	A1-1	Culinary Career Paths	*	C4-5	Dry Cooking Methods	*
A1-2	Manufactured Fibers	*	A1-2	Distinguish the Duties and Responsibilities of the Kitchen Brigade	*	C4-6	Combination Cooking Methods	*
A2-1	Yarns	*	A1-3	Front of the House: Duties and Responsibilities	*	C4-7	Explain Methods of Heat Transfer	*
A2-2	Weaves	*	A1-4	Professionalism	*	C5-1	Identify Menu Types	*
A2-3	Knits	*	A1-5	Work Skills	*	C5-2	Themed Menus	*
A2-5	Color	*	A1-6	Alternative Culinary Arts Careers	*	C5-3	Service Styles and Table Settings	*
A2-6	Finishes	*	A1-7	Food Service Vendors	*	C6-3	Nuts and Seeds	*
A3-1	Apparel Hand Tools and Supplies	*	A1-8	Professional Organizations	*	C6-4	Oils, Vinegars, and Condiments	*
A4-1	Seam Finishes	*	A2-1	Food Service Equipment	*	C8-1	Prepare and Decorate Cakes	*
B1-1	Elements of Design	*	A2-2	Smallwares and Hand Tools	*	C8-2	Prepare Custards and Puddings	*
B1-2	Color Concepts	*	A2-3	Knives and Cutlery	*	C8-3	Prepare and Bake Breads	*
B1-3	Color Selection	*	A2-4	Culinary Arts Terms	*	C8-4	Create Desserts and Pies	*
			B1-1	Arithmetic Skills	*	C8-5	Chocolate Candies	*
			B1-2	Convert Measurements for Culinary Arts Tasks	*	C8-6	Prepare and Bake Cookies and Bars	*
			B2-1	Basic Nutrition Concepts: Nutrients, Nutritional Value, and Balanced Diets	*	C9-1	Prepare Stocks for Various Uses	*
			B2-2	Basic Nutrition Concepts: Macronutrients, Micronutrients, and Water	*	C9-2	Examine Types of Soups	*
			B2-3	Food Labels	*	C9-3	Use Thickening Agents for Soups and Sauces	*
						C9-4	Prepare Sauces: Mother and/or Grand	*
						C9-5	Small Sauces	*
						C9-6	Salsa, Chutney, Relish, and Coulis	*
						C10-2	Veal and Lamb	*
						C10-4	Poultry	*

C10-5 Fish and Shellfish	*	A4-1 Explore Various Methods of Obtaining Resources and Supplies	*	D1-2 Inform Children and Clients of Safety Policies and the Consequences of Noncompliance	*
C10-7 Pork	*	A4-2 Utilize Recyclable Materials	*	D1-3 Environmental Safety Management Planning	*
C11-1 Classify Fruits by Type and Intended Use	*	A5-1 Cultural Diversity	*	D2-1 Recognize the Importance of a Clean Environment	*
C11-2 Classify Vegetables by Type and Intended Use	*	A5-2 Plan Activities to Promote Acceptance of All Cultures and Abilities	*	D2-2 Maintain a Clean and Sanitary Environment	*
C12-1 Classify Potatoes	*	A5-3 Culturally Relevant Activities	*	D3-1 Identify Elements of Effective Displays	*
C12-2 Pasta: A Historical Perspective	*	A5-4 Culturally Relevant Environments	*	D3-2 Develop Attractive and Thought-Provoking Displays	*
C12-4 Select and Prepare Potatoes	*	A6-1 Special Needs Categories	*	D4-1 Identify Characteristics of a Nurturing Environment	*
C12-5 Pasta: Selection, Preparation, Cooking, and Serving	*	A6-2 Special Needs Activities	*	D4-2 Nurturing Skills	*
C12-6 Grains: Selection and Preparation	*	A6-3 Special Needs Activity Modification	*	D5-1 Effective Communication Techniques with a Variety of Age Groups	*
C13-1 Sandwiches	*	A6-4 Therapeutic Motor Activities	*	D5-2 Model and Encourage Effective Communication with Several Age Groups	*
C14-1 Purchase, Store, and Prepare Eggs	*	B1-1 Creating Transition Activities	*	D6-1 Behavior Modification	*
C14-2 Breakfast Meats	*	B1-2 Transition Activity Objectives	*	D6-2 Describe Ways to Positively Guide Behavior	*
C14-3 Breakfast Foods	*	B1-3 Transition Activity Routines	*	D7-1 Independent Living	*
C15-1 Salads	*	B1-4 Create a Portfolio of Transition Activities	*	D7-2 Assisted Living	*
C15-2 Identify Cheeses	*	B2-1 Developmentally Appropriate Lessons and Activity Plans	*	D7-3 <i>Day Care Options</i>	*
C15-3 Identify and Prepare Dressings	*	B2-2 Instructional Design	*	D7-4 Alzheimer's Services and Hospice	*
C16-1 Coffees and Teas	*	B2-3 Observation Techniques	*	E1-1 The Role of Nutrition in Human Growth and Development	*
C16-2 Profits from Tea and Coffee Sales	*	B2-4 Older Adult Activities	*	E1-2 Plan Age-Appropriate, Economical, and Nutritious Snacks and Meals	*
D1-1 Staff Training Plan	*	B3-1 Differentiate Between Acceptable and Unacceptable Behaviors	*	E1-3 Age-Appropriate, Economical, and Nutritious Snacks and Meals	*
D1-2 Budgets	*	B3-2 Redirect Behavior	*	E2-1 Identify Developmentally-Appropriate Self-Help Techniques	*
D1-3 Restaurant Management: Menu Planning	*	B3-3 Positive Social Behavior	*	E2-2 Self-Help Skills Development: Meals and Snacks	*
D1-4 Food and Supply Purchasing	*	B3-4 The Decision-Making Process	*	E3-1 Responsibility for One's Actions	*
D1-5 Coordination of Production and Service	*	B4-1 Research Community Resources	*	E3-2 Provide Decision-Making Opportunities for Children and Adults	*
D1-6 Marketing Plans	*	B4-2 Intergenerational Learning Opportunities	*	E3-3 The Decision-Making Process	*
D1-7 Restaurant Management: Operations	*	B4-3 Identify Volunteer Opportunities Across the Life Span	*	F1-1 Developmental Goals Evaluation	*
D2-1 Work Attitude	*	C1-1 Create a Secure and Comfortable Environment	*	F1-2 Professional Communication Skills	*
D2-2 Self-Management Skills	*	C1-2 Design Child- and/or Client-Centered Spaces	*	F1-3 Communication Skills in Various Situations	*
D4-1 Inventory Control Measures	*	C2-1 Create Various Learning and Activity Centers	*	F1-4 Develop Empathy	*
D4-2 Food Cost Percentage	*	C2-2 Arrange Various Learning and Activity Centers	*	F1-5 Utilize Technology to Formulate Newsletters and Other Correspondence	*
D4-3 Calculate Food Cost and Menu Prices	*	C3-1 Resources That Provide for Purposeful Free Play and Leisure Time Activities	*	F2-1 Time Management Skills	*
D4-4 Profit and Loss Statements	*	C3-2 Free Play and Leisure Time Activities	*	F2-2 Develop a Time Management Plan for an Environment or Event	*
D4-5 Full Product Utilization	*	C4-1 Observation of Individual Interests	*	F2-3 Priority Lists and Matrices	*
Human Growth & Development					
A1-1 Become Familiar with Education Standards	*	C4-2 Interest Inventories and Assessments	*	F3-1 Define Professionalism as it Relates to Confidentiality	*
A1-2 Plan Developmentally Appropriate Activities	*	C4-3 Provide Opportunities for Individuals to Pursue Their Interests	*	F3-2 Explain the Issues of and the Consequences of Breaching Confidentiality Regulations	*
A2-1 Identify Developmental Goals for Students and/or Clients	*	C5-1 Teachable Moments	*	F4-1 Documentation and Reporting	*
A2-2 Developmentally Appropriate Lessons and Activity Plans	*	C5-2 Teachable Moments: Case Study	*		
A2-3 Critique Lesson and Activity Plan Implementation	*	C6-1 Familiarize Students/Clients with Positive Social-Emotional Behaviors	*		
A3-1 Understand the Importance of a Daily Routine and Program Schedule	*	C6-2 Positive Social-Emotional Behaviors	*		
A3-2 Plan a Daily Routine and a Program Schedule	*	C6-3 Set Age-Appropriate Guidelines	*		
A3-3 Daily Routines and Program Schedules	*	D1-1 Document Potential Safety Hazards in the Learning and Activity Environments	*		
A3-4 Routine and Schedule Evaluation	*				

F4-2	Identify Available Resources to Share with Individuals and Families	*	G6-2	Special Needs Programming Accommodations	*	H7-3	Effects of Aging on Personality	*
F5-1	Develop Involvement Activities	*	G6-3	Special Needs Resources	*	H7-4	How We Learn as We Age	*
F5-2	Participation Techniques	*	H1-1	The Treatment and Education of Children and Older Adults Throughout History	*	H7-5	Types of Stress Related to Aging	*
F6-1	Common Core State Standards	*	H1-2	Child and Adult Care Professions and Education	*	H7-6	Positives and Negatives of Stress During Aging	*
F6-2	Common Core Learning Standards Alignment	*	H1-3	Leaders in Child and Adult Care Professions and Education	*	H7-7	Symptoms and Social Aspects of Depression	*
F6-3	Common Core Resources for Lessons and Activities	*	H1-4	Myths and Facts of Biological Aging	*	H8-1	Examine the Grief Process	*
F6-4	Common Core Resources for Lesson and Activity Delivery Model	*	H1-5	Stereotypes of Aging	*	H8-2	Rituals of Death and Dying	*
F7-1	Recognize Opportunities for Future Employment and Advancement	*	H2-1	The Mechanics of Genetics	*	H8-3	Death: Natural and Self-Directed	*
F7-2	Human Growth and Development Careers	*	H2-2	How Environment Can Affect Genetic Traits	*	SCHOOL CAREER COUNSELING		
F8-1	Professional Organizations and Advocacy	*	H3-1	Developmental Milestones	*	A1-3	College and Career Readiness Skills*	
F8-2	Advocacy Activities	*	H3-2	Typical and Atypical Behaviors in Children	*	A3-1	Lifestyle Versus Personal Style	*
G1-1	Supply Cost Estimations	*	H3-3	Strategies to Modify Atypical Behaviors in Children	*	A3-2	Workplace Skills Development	*
G1-2	Wants and Needs	*	H3-4	Chronic Disorders Associated with Aging	*	A3-3	Career Awareness	*
G1-3	Supply Purchasing and Cost Management	*	H3-5	Health Issues Associated with Aging*	*	A3-4	Parents as Partners in Career Decision Making	*
G1-4	Budget Development	*	H3-6	Effects of Aging on Body Systems	*	B2-1	Making a Career Choice	*
G1-5	Community Resources and Recyclables in Center Programming	*	H3-7	Body Systems Affected by Aging	*	B2-2	Decision-Making Tools	*
G2-2	Program Accreditation Guidelines	*	H3-8	Factors That Influence Life Expectancy	*	B3-1	Career Assessment	*
G2-3	Program Funding Sources	*	H3-9	Aging Throughout the Life Span	*	B3-2	Nontraditional Careers	*
G2-4	Program Compliance Requirements	*	H3-10	Age-Related Perceptions Around the World	*	B1-1	Career Exploration	*
G2-5	Advisory Boards for Child and Adult Care	*	H4-1	Features of Developmental Theories*	*	C1-1	Job Markets	*
G2-6	Summarize State and Federal Regulations for Mobility and/or Access	*	H4-2	Current Research on Brain Development	*	C1-2	<i>Assessment Time Line: Testing</i>	*
G3-1	Administrative Skills	*	H4-3	Facilitate a Positive Resolution of Erikson's Eight Stages of Human Development	*	C1-3	<i>Assessment Time Line: Step-by-Step for Students and Parents</i>	*
G3-2	Childcare and Adult Care Center Documentation	*	H5-1	Curriculum Theories	*	D2-3	College and Career Searches	*
G4-1	Marketing Plans: Intergenerational Center	*	H5-2	Advantages and Disadvantages of Curriculum Theories	*	D3-1	Enrollment Strategies for Community and Junior Colleges	*
G4-2	Marketing Plans: Collaboration	*	H6-1	Mobility Equipment	*	D3-2	Benefits of Community and Junior College Career Programs	*
G4-3	Marketing Materials	*	H6-2	Physical, Social, and Psychological Barriers Related to Decreased Mobility	*	D3-3	Enrollment Strategies for Four-Year Colleges and Universities	*
G5-1	Professional Development Strategies	*	H7-1	Effects of Aging on Intelligence	*	D3-4	Enrollment Strategies for Private Trade and Technical Schools	*
G5-2	Professional Development Planning	*	H7-2	Effects of Aging on Long- and Short-Term Memory	*	D4-1	Military Academies and Enlistment	*
G6-1	Community Resources for Individuals and Families	*				D4-2	Military Training and Postsecondary Education	*
						D5-1	Employment Strategies	*
						D5-2	Career Planning	*