



Colorado CTE Course – Scope and Sequence

Course Name	Nail Technology- Intermediate I		Course Details	Credit = 1.0 (Each course in this pathway is recommended at 150 contact hours to meet the licensure requirements for DORA) Prerequisite: Nail Technology I CTE Credential: CTE Personal Care Services	
			Course = 0.50 Carnegie Unit Credit		
Course Description	The second level of the nail technology program introduces the students to intermediate level skills required to become a licensed Nail Technician. Courses of study include: applications of Colorado Barber and Cosmetology rules, laws, and regulations, intermediate manicures and pedicures; intermediate disinfection, sanitation and safety procedures. Students who complete all courses in the Nail Technology pathway may be eligible for the Colorado Board of Barber and Cosmetology Examination for Nail Technician Licensure.				
Note:	This is a suggested scope and sequence for the course content. The content will work with any textbook or instructional resource. If locally adapted, make sure all essential knowledge and skills are covered.				
SCED Identification #	19105	Schedule calculation based on 60 calendar days of a 90-day semester. Scope and sequence allows for additional time for guest speakers, student presentations, field trips, remediation, or other content topics.			
All courses taught in an approved CTE program must include Essential Skills embedded into the course content. The Essential Skills Framework for this course can be found at https://www.cde.state.co.us/standardsandinstruction/essentialskills					
Instructional Unit Topic	Suggested Length of Instruction	CTE or Academic Standard Alignment	Competency / Performance Indicator	Outcome / Measurement	CTSO Integration
Career Development		Develop an education and career plan aligned with personal goals. Integrate multiple sources of career information from diverse formats to make informed career decisions, solve problems, and manage personal career plans.	Explore and engage in career development activities. Student is expected to: (A) investigate employment opportunities, including entrepreneurship and salon ownership/management;(B) evaluate data or outcome of a broad range of personal care services; and	Research local employment opportunities in Colorado in your area of interest. Write an informative paper or develop an infographic identifying entry-level requirements for specific job types and note any special skills or techniques that employers are seeking.	Student ICAP

			(C) understand career pathways and training and licensing requirements for cosmetology professionals in Colorado.		
Safety, Sanitation, and Efficient Work Practices (These standards may be embedded into the individual practice areas or covered as a stand-alone unit)		Understand and apply safety, sanitation, and efficient work practices for cosmetology professionals. Demonstrate health and safety procedures, regulations, and personal health practices and determine the meaning of symbols, key terms, and domain-specific words and phrases as related to the Beauty Industry workplace environment. Use health and safety practices for storing, cleaning, and maintaining tools, equipment, and supplies.	Careers in cosmetology include all aspects of sterilization and sanitation procedures and personal care services, including hair care, nail care, and skin care. Students will be expected to develop an understanding of the technical knowledge and skills needed for success in the personal care services industry including: (A) Demonstrate the development of procedures of a safe and healthy work environment; (B) Demonstrate safe handling and use of disinfectant products and tools; (C) Explain and/ or demonstrate providing all services in a safe environment, taking measures to prevent the spread of infections and contagious disease;	Identify personal and jobsite safety hazards and demonstrate practices for safe and healthy work environments. Accurately read, interpret, and demonstrate adherence to safety rules, including but not limited to rules pertaining to Occupational Safety and Health Administration (OSHA) and Environmental Protection Agency (EPA) guidelines, and state and national code requirements. Be able to distinguish between rules and explain why certain rules apply. Define and differentiate possible emergencies and emergency procedures. Create a disaster and/or emergency response plan including real-life examples describing principles and practices of infection control and blood-borne pathogens	

			(D) List the various types and classifications of bacteria; (E) Describe how bacteria grow and reproduce; (F) Describe the relationship of bacteria to the spread of disease; (G) Define common diseases and disorders encountered by cosmetology professionals and provide brief overview of their pathology; (H) Explain and understand the importance of decontamination; and (I) Explain the difference between sanitation, disinfection, and sterilization.	as it applies to EPA, OSHA and Safety Data Sheets (SDS). Identify decontamination procedures to ensure the safety of the client and/or peers in the classroom and laboratory. Apply work-emergency teamwork procedures and social skills in following the rules for professional ethics and demonstrate a cultural awareness of hygiene and socialized differences by using active listening skills. Demonstrate proper set-up and operation of equipment and utilization of materials by mixing chemicals in appropriate proportions according to manufacturer's instructions. Clean and maintain implements by using appropriately mixed chemicals and following the procedures for decontamination of tools. Identify appropriate chemicals and perform disinfecting procedures. Describe, observe, identify, and analyze the functions, structures, and diseases, and	
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				disorders of skin and nails. Demonstrate and communicate to the client the proper care of skin and nails through cleanliness, nutrition, and healthful living. Compile, practice, and critique procedures for maintaining a safe and sanitary environment for clients present in a cosmetology facility. Cite information for the Occupational Safety and Health Administration (OSHA) to identify precautionary guidelines to prevent illness, communicable diseases and injuries. Incorporate safety procedures and complete a safety test with 100 percent accuracy; include exam in course portfolio.	
Applied Academic Foundations for Cosmetology		Understand and apply scientific principles of human anatomy, physiology, and chemistry to cosmetology services performed by nail technicians.	The student applies academic skills to the field of nail technology. The student is expected to: (A) demonstrate understanding of anatomy and physiology as it applies	Summarize the different functions, structures, and diseases and disorders of skin and nails, citing your sources. Write a script and create a video or public service announcement explaining how to properly	

		Analyze and apply appropriate academic standards required for successful industry sector pathway completion leading to postsecondary education and employment.	to the nail technology profession; (B) differentiate body tissue, body systems, and their functions; (C) compare the structure, composition, and growth of skin and nails; (D) apply the principles of organic and inorganic chemistry; (E) construct solutions, suspensions, and emulsions that may be used during nail technology services; (F) apply an understanding of pH and the pH scale to nail technology services; (G) distinguish between the principles and practices of infection control, including bacterial disorders and diseases and viruses; and (H) understand the nature of electricity by defining types of electric current and the electric modalities used in cosmetology.	care for skin, and nails through cleanliness, nutrition, and healthful living. Include correct demonstration of your procedures as it applies to safety or diagnosis of the clients in the video or public service announcement. Nail Structure and Function Considerations: Evaluate concepts related to the advanced artificial nail techniques to demonstrate the following while adhering to all manufacturer's directions and safety procedures: a. Correctly apply artificial material, acrylic and gels, to the free edge of the natural nail and or to the full natural nail. Recognize and demonstrate understanding of diseases and disorders of the nail as well as the relationship to size for molding the artificial nail into a natural looking nail. b. Demonstrate comprehension of acetone product reactions to the skin and nails by removing the artificial material from the	
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natural nail plate without damage to the natural nail.
c. Apply knowledge of the chemical reactions of products to the skin and nails, correctly demonstrate the ability to properly polish the nail with a base, color and topcoat to make a smooth even shade to the nail, relying on consultation with client. Demonstrate ability to create an artful scene on a minute surface.
d. Exhibit awareness of nail diseases and disorders by providing client with the proper information regarding safe nail maintenance.

Differentiate between the chemicals involved in services exploring how each service affects the structure of the nail or skin. Write an essay explaining the importance of potential hydrogen (pH) in services, include distinguishing factors between sulfur, hydrogen, and disulfide bonds.

				Recall and indicate nail characteristics; discuss the importance of evaluating how products affect the nails and how to select the best choices for clients.	
Personal and Employability Skills for Client Services		Demonstrate effective oral and written communication skills with diverse individuals, including coworkers, management, and customers. Understand and apply knowledge of business and employability skills required of cosmetology professionals. Acquire and accurately use beauty industry terminology and protocols at the career and college readiness level for communicating effectively in oral, written, and multimedia formats.	The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: (A) demonstrate professionalism in how to dress appropriately, speak politely, and conduct oneself in a manner appropriate for the profession and work site; (B) employ the ability to be trustworthy by complying with an ethical course of action; (C) use conflict-management skills to avoid potential or perceived conflict; (D) demonstrate effective oral and written communication skills with diverse individuals, including coworkers, management, and customers;	SkillsUSA Career Essentials may be used as an assessment for these standards. Describe the need for personal ethics by cosmetologists. Collect Codes of Ethics from various cosmetology-related professional organizations and examine areas of commonality. Debate the significance of including standards in these areas. Synthesize principles from the codes investigated to create a personal code of ethics. Clearly define how the code of ethics relates to the culture of a salon and to retaining clients. Explore different salon cultures possible within the cosmetology industry. Research and demonstrate proper consultation of	SkillsUSA Leadership Contests SkillsUSA 4 Pillars SkillsUSA Career Essentials

			(E) develop skill in handling multiple tasks simultaneously such as prioritizing tasks, managing workflow under pressure, and completing work-related activities in a timely manner; (F) exercise personal ownership over the quantity and quality of individual performance and team assignment; and (G) employ leadership skills within a classroom or community setting to maintain positive relationships.	clients. Practice effective verbal, nonverbal, written, and electronic communication skills for working with clients while demonstrating the ability to: empathize, motivate, listen attentively, speak courteously and respectfully, defuse client's anger or skepticism, resolve conflicting interests, and respond to client objections or complaints to the client's satisfaction. Using simulations, practice problematic clients and consultations using laws as reasoning.	
Client Services		Demonstrate knowledge of practical cosmetology industry skills such as manicuring and pedicuring. Understand and apply tools and techniques for basic cosmetology nail-related services.	The student demonstrates an understanding in the use of tools, equipment, technologies, and materials used in cosmetology. The student is expected to: (A) employ safe and effective use of tools to enhance client services; (B) use ergonomically designed equipment to promote professional efficiency; (C) use available technology sources effective in a	Apply concepts related to nail procedures services: Research and create an informational artifact (e.g., brochure, poster, fact sheet, narrative, or presentation) explaining safety and sanitary procedures for nails in manicures and pedicures as it applies to advanced techniques, cite your sources. Apply nail wraps using proper techniques and safety and sanitary procedures.	SkillsUSA Contests: Nail Care

			professional salon setting; and (D) apply universal precautions in disposal of hazardous materials. The student applies the academic knowledge and practical skills to simulated and actual work situations. The student is expected to: (A) apply client consultation skills to guide individuals in recognizing concerns and making informed decisions; (B) document client satisfaction, procedures, and products to facilitate ease of consultation in future appointments; (C) locate and compare vendors to maximize benefits for personal care clients, businesses, or organizations; (D) demonstrate process steps of basic manicure and pedicure; (E) perform basic manicure as required for the state practical exam; and (F) perform an acrylic nail application service as required for the state practical exam.	Write a narrative analyzing the correct removal application for each nail service or pedicure service technique. Demonstrate proper removal of all materials. Using correct techniques to apply nail tips including all sanitary and safety procedures and chemical processes. Draw on cosmetology texts and other technical documents to compare and contrast types of nail technology implements. Create a written report or visual depiction outlining the implements' characteristics and properties of each type. Describe the costs and other factors that influence the decision to use each type of implement. Discuss the importance of high-quality professional implements, proper fit, and maintenance that is required of each. Research various texts and form a hypothesis explaining why clients choose to use nail services and how a cosmetologist can influence	
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				a client's decision. Also include a theory on which services are the most lucrative and repetitive services in salons. Research and develop a logical explanation of the importance of learning what specific chemical ingredients are in nail technology products and how they work.	
Laws, Rules, and Regulations (This section may be taught in any of the courses in the pathway sequence.)		Understand the laws, rules, and regulations established by Colorado State Statute and the Colorado Department of Regulatory Agencies pertaining to cosmetology professions. Practice professional, ethical, and legal behavior, responding thoughtfully to diverse perspectives and resolving contradictions when possible, consistent with applicable laws, regulations, and organizational norms.	The student demonstrates knowledge of rules and regulations established by the Colorado Department of Regulatory Agencies (DORA) Office of Barber and Cosmetology. The student is expected to: (A) apply health and safety policies and procedures; (B) recognize risks and potentially hazardous situations in compliance with the state rules and regulations; (C) comply with all applicable rules, laws, and regulations; (D) navigate the DORA website for exam eligibility, exam procedures, and	Research and summarize in a clear and coherent narrative the legislative and electoral processes of state governments as it relates to cosmetology actions using public documents, textbooks, or government websites. Identify your role as well as the role of public agencies in supporting elected officials to meet goals and objectives, and in endorsing approved legislation or participating in the public rule-making process. Gather research and analyze information from the Colorado Department of Regulatory Agencies (DORA)	

			other information related to licensing; (E) identify licensure and renewal requirements of the licensee or licensed cosmetology establishment or school; and (F) explain the importance of personal integrity, confidentiality, and ethical behavior in the workplace.	Office of Barber and Cosmetology Licensure. Generate a visual representation (e.g., chart, diagram, brochure, etc.) to illustrate important connections to the following: a. Sanitation, disinfection, and safety laws: cleaning and disinfecting of implements and equipment, cleaning and disinfecting work environment, and sanitary procedures and pathogens b. Licensing, certification, and industry credentialing requirements c. Legal responsibilities, behaviors, and practices/procedures (ethical vs. unethical, legal vs. illegal) Assemble a list of professional and governing organizations that provide professional development for cosmetologists in Colorado. In a written narrative, describe the benefits of ongoing professional development including the state	
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				requirements in Colorado for cosmetology and barbering professions.	
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Academic Standards Alignment

Colorado CTE courses are required to integrate academic and essential skills into course content. The following academic standards have been identified as aligned to this course and should be integrated throughout instruction.

[CO CTE Academic Standards Resources](#) (Rubrics, integration strategies, etc) [CDE Colorado Academic Standards Online](#) (Online standards lookup tool)

Reading, Writing, & Communicating

Standard 1: Oral Expression and Listening

- **Prepared Graduate 1:** Collaborate effectively as group members or leaders who listen actively and respectfully; pose thoughtful questions, acknowledge the ideas of others; and contribute ideas to further the group's attainment of an objective.
- **Prepared Graduate 2:** Deliver effective oral presentations for varied audiences and varied purposes.

Standard 2: Reading for All Purposes

- **Prepared Graduate 4:** Read a wide range of informational texts to build knowledge and to better understand the human experience.
- **Prepared Graduate 5:** Understand how language functions in different contexts, command a variety of word-learning strategies to assist comprehension, and make effective choices for meaning or style when writing and speaking.

Standard 3: Writing and Composition

- **Prepared Graduate 8:** Craft narratives using techniques specific to the genre.
- **Prepared Graduate 9:** Demonstrate mastery of their own writing process with clear, coherent, and error-free polished products.

Standard 4: Research Inquiry and Design

- **Prepared Graduate 10:** Gather information from a variety of sources; analyze and evaluate its quality and relevance; and use it ethically to answer complex questions.

Note: Mathematics and Science standards will be added in the future. Visit the [Colorado Academic Standards](#) page for the most current version.