



Personal Trainer (CPT)

Course Name	Personal Tra	ainer (CPT)	Course = 0.50 Carnegie Unit Credit
Course Description	The Certified Personal Trainer (CPT) course prepares students for the NCCA-Accredited CPT exam. The course also instills the knowledge and standards needed for excellence in Certified Personal Trainer practice. The NCCA-Accredited CPT exam is an approved certification found on the Career Development Incentive Program (CDIP) approved programs list.		
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 competencies are covered. Please contact your local community college partner for credit options available. Instructors must have A current CPT certification in order to run this course. This may be free to the instructor based on the CPT training organization the program partners with for the class coursework. AND An approved CTE credential for this course. This course must be run in partnership with an NCCA-accredited organization (NASM). This means that the course/students use materials from an NCCA-accredited organization. A CTE-approved Anatomy and Physiology course must be taken as part of this pathway before a student begins this Personal Trainer course. Students can sit for the CPT exam after completion of the course with the instructor's approval 		
Schedule:	Schedule calculation based on 60 contact hours. 60% of instruction time should be geared in meeting the course competencies in the scope and sequence. The remaining 40% of the instructional time allows 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/essentialskill			
Instructional Unit Topic	Suggested Length of Instruction	CTE or Academic Standard Alignment	Competency / Outcomes
Basic and Applied Sciences and Nutritional Concepts			1. Concepts and structures of anatomy, including the nervous system, muscular system, skeletal system, cardiorespiratory system, and endocrine system
			2. Functions of exercise physiology related to:a. nervous systemb. muscular system





c. ske	eletal system
d. en	docrine system
e. ca	rdiorespiratory system
f. di _e	gestive system
g. bio	penergetics and exercise metabolism
3. Functional biom	echanics (such as levers, force, torque)
4. Principles of hur	nan movement science related to:
a. pla	anes of motion (sagittal, frontal, and transverse)
b. mu	uscle action spectrum (isometric, concentric, and centric)
c. for	rce-couple relationships (agonist, antagonist,
d ler	nergist, and stabilizer)
	etch-shortening cycle
f rec	ciprocal inhibition and autogenic inhibition
g ini	nt actions (such as rotation flexion extension)
h. int	regrated muscle system (global and local
SVS	stems, including deep
i. lor	ngitudinal subsystem, anterior oblique
su	bsystem, and posterior oblique subsystem)
5. Principles of mo	tor development (motor learning, motor control,
and motor behavio	pr)
6. Macronutrients	(carbohydrates, protein, and fat)
7. Micronutrients (vitamins and minerals)
8. Hydration conce	pts and guidelines
9. Recommendatio	ons and guidelines for caloric intake and
 expenditure	
 10. Energy systems	s (ATP-PC System, glycolytic, and oxidative)
 11. Exercise post-o	xygen consumption [EPOC]
 12. Units of energy	measurement (kcals and calories)
 13. Dietary referen	ice intakes
 14. Portion sizes, m	neal timing, and meal frequency
 15. Nutrient and en	nergy density
16. Crash/fad/myti	n alets





	17. Common nutritional supplements including possible risks,
	benefits, uses, and effects
	18. Food and supplement label reading
	19. Factors that can influence weight management physiology (such
	as the law of thermodynamics, poor sleep, endocrine abnormalities,
	medications, metabolism
Client Relations	1. Communication methods and strategies (such as verbal and
and Behavioral	nonverbal communication, active listening, rapport building)
Coaching	2. Goal types (such as SMART, short-term, long-term, lifetime,
	process, outcome)
	3. Client expectation management related to client-trainer
	relationship and overall training goals
	4. Transtheoretical Model of Behavior Change (or Stages of Change)
	5. Behavioral coaching methods (such as motivational coaching,
	reinforcements)
	6. Behavior change strategies (such as habit stacking, stress
	reduction, time management)
	7. Barriers to behavior change (such as social influences,
	environmental factors)
	8. Psychological responses to exercise (such as stress relief, improved
	self-esteem, positive self-image)
Assessment	1. Physical Activity Readiness Questionnaire (PAR-Q) assessment
	2. Essential elements of personal, occupational, and family medical
	nistory
	3. Medical risk factors (such as pregnancy, eating disorders,
	nypertension, age of the client)
	4. Elements of a lifestyle questionnaire (such as sleep, stress level,
	tobacco and alcohol use)
	5. Cardiorespiratory assessments (such as 5-minute step test,
	Kockpolit Walk lest, VOZIVIAX lest, rate of perceived exertion [KPE]). 6. Dhysiological assessments relevant to CDTs (such as recting heart).
	6. Physiological assessments relevant to CPTs (such as resting heart
	7. Kinotic chain chackpoints (anklas, knoos, lumba nalvis hin
	7. Killetic chain checkpoints (ankies, killes, lumbo-peivic-hip
	Complex, shoulders, and neady Second and the second seco





	as blood pressure, cholesterol, glucose, BMI)
	9. Body composition assessments and calculations (such as skin fold calipers, circumference, bioelectrical impedance, fat mass, lean mass)
	10. Static postural assessment
	11. Performance assessments (such as 1-repetition maximum, vertical jump, long [broad] jump)
	12. Types of movement assessments (such as overhead squat, single-leg squat, push, pull, gait)
	13. Considerations for selection of assessment(s) to administer based on client's goals, fitness level, and contraindications
	14. Considerations and modifications for performing assessments with special populations (such as youth; seniors; prenatal, clinical, and obese clients)
	15. Standards for assessments and outcome expectations for special populations (such as youth; seniors; prenatal, clinical, and obese clients)
	16. Indicators that a client's condition requires a medical release/clearance or is out of scope and requires referral to another professiona
	17. Criteria for reassessment (such as time lapsed, client plateau, change in goals, change in health, change in phase, weight loss or gain
Program Design	 Periodization concepts, programming, and methods, including: a. macro-, meso-, and microcycles b. levels (such as stabilization, strength, power) c. phases (such as stabilization endurance, strength endurance, hypertrophy, maximal strength, power) d. approaches (linear and undulating) Principles of specificity, variation, and overload
	3. General adaptation syndrome
	4. Flexibility training methods (such as self-myofascial release (SMR), static, activeisolated, dynamic stretching)
	5. Resistance training systems (such as single set, multiple set, super set, pyramid set, circuit training, vertical loading, horizontal loading)





6. Resistance training modalities (such as machines, body weight, free weights)
7. Cardiorespiratory training methods (such as zone/stage training, interval training, steady state)
8. Core training exercises for core-stabilization (such as plank, bird dog, bridge), core-strength (such as reverse crunches, ball crunches, cable rotations) and corepower (such as soccer throw, rotation chest pass, medicine ball pullover throw)
9. Balance training exercises for balance-stabilization (such as single-leg balance, single-leg balance and reach, single-leg windmill), balance-strength (such as singleleg squat, single-leg deadlift, lunge to balance) and balance-power (such as singleleg box hop-up, single-leg box hop-down, multiplanar single-leg hop)
10. Proprioceptive progression and regression (such as closing or opening eyes, single-leg stand, sitting)
11. Reactive training exercises for reactive stabilization (such as squat jump with stabilization, box jump-up to stabilization, multiplanar jumps with stabilization), reactive strength (such as butt kicks, tuck jump, squat jump) and reactive power (such as box run steps, ice skaters, proprioceptive plyometrics)
12. Speed, agility, and quickness (SAQ) training exercises (such as resisted sprints, cone drills, agility ladder drills)
13. Exercise progression/regression
14. Acute variables (such as sets, repetitions, exercise selection, progressions, FITTE principle)
15. Risk versus reward of different modalities and exercises
16. Overtraining, rest, and recovery
17. Current trends and their applicability to individual training programs
18. Types of fitness technology (such as heart rate monitors, performance trackers, nutrition trackers, applications) and their uses and benefits
19. Considerations for selection of exercises based on client's assessment results, goals, fitness level, and contraindications
20. Considerations for exercise program design for special populations (such as youth; seniors; prenatal, clinical, and obese





	с	clients)
Exercise Technique and Training Instruction		 Proper set-up and technique of: a. flexibility training methods b. core exercises c. balance exercises d. reactive exercises, including plyometrics e. speed, agility, and quickness (SAQ) exercises f. resistance training exercises g. warm-up protocol h. cool-down protocol
	S	Safe training practices (such as maintaining a safe environment,
	P n	Physical signs or symptoms that indicate need for training modification or discontinuation
	A	Application and modalities of exercise regressions and progressions
	S	Safe, effective, and professional spotting techniques
	P	Proper breathing techniques during exercise
	K S	Kinetic chain checkpoints (ankles, knees, lumbo-pelvic-hip complex, shoulders, and head)
Professional Development & Responsibility	1 c a	 Professional and ethical guidelines, standards, and codes of conduct (such as record keeping, client medical clearance, physical appearance and attire, punctuality)
	2	 Scope of practice and professional limitations of personal trainer (such as psychological counseling, meal planning, diagnosing injury)
	3	3. Requirements for maintaining professional credentials
	4	4. Resources regarding rules and regulations applicable to CPTs
	5 b n ir	5. Marketing concepts and techniques (such as branding, pusiness-to-business [B2B] and business-to-consumer [B2C] networking, sponsoring, use of social media, community nvolvement, video blogging)
	0	b. Techniques for client acquisition, retention, and ascension (such as





	professional and timely communications, obtaining client feedback, events, promotions, social media campaigns, email campaigns)
	7. Sales concepts and techniques (such as lead generation, presenting, prehandling, and overcoming objections)
	8. Equipment maintenance and safety considerations
	9. Emergency protocols (such as activating EMS, implementing facility emergency action plan)
	10. Credible resources of information regarding health and fitness education (such as scholarly articles, peer-reviewed articles, conferences, workshops)
	11. Opportunities for professional development through education and other professional experiences