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Course Outline for KIN CYCL3

CYCLING 3

Effective: Fall 2019

I. CATALOG DESCRIPTION: KIN CYCL3 — CYCLING 3 — 0.50 - 2.00 units

This is an advanced course of fitness through indoor cycling. The cycling program is an individually paced, group training program. Cycling is an exercise performed on a stationary bicycle and is performed usually to music. This course is designed to build upon the base levels of fitness developed in Cylcling 1 and Cycling 2 courses while increasing the development cardio-respiratory endurance and overall body strength.

0.50 - 2.00 Units Lab

Grading Methods:

Letter or P/NP

Discipline:

Physical Education

Family: Kinesiology Cycling

MAX MIN Lab Hours: 27.00 108.00 **Total Hours:** 27.00 108.00

- II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: 1
- III. PREREQUISITE AND/OR ADVISORY SKILLS:
- IV. MEASURABLE OBJECTIVES:

Upon completion of this course, the student should be able to:

- A. Measure current fitness and formulate an individualized hill-training and cardio conditioning program.
- B. Demonstrate effective and safe riding technique to maximize endurance gains
- Illustrate a personalized training program based upon fitness training principles
- Identify training methods used to enhance power and strength
- Specify the the body's physiological responses when a person performs hill-climbing, power and strength (anaerobic) exercise.
- F. Identify the the body's physiological responses when a person performs hill-training, strength (anaerobic) exercise.
 G. Integrate and organize conditioning and training goals based upon training principles and hill-training conditioning.

V. CONTENT:

- A. Introduction to Equipment
 - 1. Footwear/shoelaces
 - Seat and post height positioning
 - 3. Fore and aft seat positioning
 - 4. Handlebar height adjustment
 - Pedals and Toe straps
 - 6. Hydration and Towels
- 7. Appropriate attire
 B. Biomechanics and Proper Technique of Cycling
 - 1. Hand positions
 - 2. Core Movements
 - Seated flats
 - 4. Standing flats5. Seated hills
 - 6. Standing hills

 - 7. Jumps
- 8. Warm up, Flexibility Work and Cool Down
 C. Description of Proper Breathing Techniques
 1. Breathing and abdominals
 2. Visualization techniques
 3. Relayation Techniques

 - 3. Relaxation Techniques
- D. Pedaling Cadence and Proper Workload

 1. Hill-training Routines

 2. Jumps

 3. Sprints

- 4. Timed Combination Workouts
- E. Effects of Resistance

 - Jumping on a hill
 Running with resistance
- 2. Running with resistance
 3. Sprinting on a hill
 4. Rhythm release and pedal efficiency
 F. Cycling Technique and Practice
 1. Instructor guided rides
 2. Heart Rate Monitoring
 3. Resting Heart Rate
 4. Activity Heart Rate
 5. Heart Rate Zone
 6. Rate of Perceived Exertion
 7. Recovery Heart Rate
- 7. Recovery Heart Rate
 G. Health Risks Associated with Sedentary Lifestyle

 - Obesity
 Diabetes
 - 3. Heart Disease

VI. METHODS OF INSTRUCTION:

- A. Lab -
- B. Audio-visual Activity -
- C. Classroom Activity D. Individualized Instruction -
- E. Guest Lecturers -
- Observation and Demonstration -
- G. Demonstration -

VII. TYPICAL ASSIGNMENTS:

- A. Students are required to turn in written assignments that are designed to develop problem solving in relationship to sprint cycling

- A. Students are required to turn in written assignments that are designed to develop problem solving in relationship to sprint of solving conditioning requirements.

 B. Specific reading assignments from the designated instructional materials are assigned on a regular basis throughout the semester.

 C. Laboratory activity is designed for development of student understanding and skill within the course content.

 D. A series of exercises/activities to warm-up the body and focuses the mind on the body's potential for movement.

 E. Instructor or student demonstration of each exercise/skill, the students must then analyze the exercise/activity for mechanics and sequence.

VIII. EVALUATION:

Methods/Frequency

- A. Quizzes
 2-3 times per semester
 B. Class Participation
- - assessed daily
- C. Class Performance
- assessed daily

IX. TYPICAL TEXTS:

- 1. Fahey, Thomas, Paul Insel, and Walton Roth. Fit & Well: Core Concepts and Labs in Physical Fitness and Wellness. 12 ed.,
- 2. Shechtman, Norma. Indoor Cycling: Basics & Beyond Print CE. 3 ed., Human Kinetics, 2015.
- 3. Hobson, W., & Friel, D. . Workouts in a Binder® for Indoor Cycling . Velopress , 2015.

X. OTHER MATERIALS REQUIRED OF STUDENTS: