

College of San Mateo
Official Course Outline

1. **COURSE ID:** AQUA 127.4 **TITLE:** Swim Stroke Development IV
Units: 0.5 or 1.0 units **Hours/Semester:** 24.0-54.0 Lab hours; 24.0-54.0 Total Student Learning hours
Method of Grading: Grade Option (Letter Grade or Pass/No Pass)

2. **COURSE DESIGNATION:**

Degree Credit

Transfer credit: CSU; UC

AA/AS Degree Requirements:

CSM - GENERAL EDUCATION REQUIREMENTS: E4: Physical Education

CSU GE:

CSU GE Area E: LIFELONG LEARNING AND SELF-DEVELOPMENT: E2

3. **COURSE DESCRIPTIONS:**

Catalog Description:

An expert level swim course designed to expose students to the benefits of aerobic exercise through swimming. The focus will be on the development of stroke mechanics including the free style, butterfly, back stroke, and breast stroke.

4. **STUDENT LEARNING OUTCOME(S) (SLO'S):**

Upon successful completion of this course, a student will meet the following outcomes:

1. Improve in one or more: body composition, range of motion, overall body weight, resting heart rate, strength and endurance, and aerobic capacity at an expert level.
2. Demonstrate fundamental biomechanical knowledge of the various strokes; freestyle, breast stroke, back stroke and butterfly at an expert level.

5. **SPECIFIC INSTRUCTIONAL OBJECTIVES:**

Upon successful completion of this course, a student will be able to:

At an expert level:

1. Perform expert levels of the back stroke, breast stroke, butterfly and free style swimming techniques.
2. Swim with efficiency using proper body mechanics for all strokes.
3. Synchronize both upper body and lower body when performing all strokes.

6. **COURSE CONTENT:**

Lab Content:

At an expert level:

1. Introduction
 - A. Stretching
 - a. Static
 - b. Dynamic
 - B. Injury prevention
 - C. Pool safety
 - D. Dry-land mechanics
 - a. Free style
 - b. Breast Stroke
 - c. Back Stroke
 - d. Butterfly
 - E. Core stabilization exercises (dry land)
 - a. Dying bug
 - b. Crunches
 - c. Push-ups
 - F. Shallow water mechanics introduction
 - a. Free style
 - b. Breast Stroke
 - c. Back Stroke
 - d. Butterfly
 - G. Conditioning Exercises

- a. Interval training
- b. Cardiovascular conditioning
- H. Efficiency of swim strokes
- I. Coordination of upper body and lower body mechanics

7. REPRESENTATIVE METHODS OF INSTRUCTION:

Typical methods of instruction may include:

- A. Lecture
- B. Lab
- C. Activity
- D. Critique
- E. Directed Study
- F. Discussion
- G. Individualized Instruction
- H. Observation and Demonstration

8. REPRESENTATIVE ASSIGNMENTS

Representative assignments in this course may include, but are not limited to the following:

Writing Assignments:

Final examination on the physiological principles of exercise.

Reading Assignments:

Instructor generated hand-outs used to supplement instruction.

Other Outside Assignments:

Students are encouraged to engage in at least one additional session of physical activity outside of class each week.

9. REPRESENTATIVE METHODS OF EVALUATION

Representative methods of evaluation may include:

- A. Class Participation
- B. Class Performance
- C. Class Work
- D. Exams/Tests
- E. Final Class Performance
- F. Lab Activities
- G. Written examination

10. REPRESENTATIVE TEXT(S):

Other:

- A. Instructor generated handouts.

Origination Date: December 2023
Curriculum Committee Approval Date: March 2024
Effective Term: Fall 2024
Course Originator: Andrew Silva