

**J. Sargeant Reynolds Community  
College Course Content Summary**

**Course Prefix and Number:** CSP 291

**Credits:** 3

**Course Title:** Intermediate Clinical Applications

**Course Description:** Provides the student with continued hands-on practice in the clinical setting with an emphasis on packaging, wrapping, and sterilization in the clinical setting within a central sterilization-processing department. Provides the clinical experience required for International Association of Healthcare Central Service Materiel Management (IAHCSMM) certification. Prerequisite: CSP 191. Laboratory 9 hours per week.

**General Course Purpose:** This course provides clinical experience in the central sterile environment in preparation for practice as a certified central sterile technician and provides 135 hours toward the 400 clinical hours in wrapping, packaging, and sterilization required for the IAHCSMM certification exam.

**Course Prerequisites and Co-requisites:**

Prerequisite: CSP 191

**Student Learning Outcomes:**

Upon completing the course, the student will be able to

- a. Demonstrate how to operate steam autoclaves, low-heat sterilization, high-level disinfection equipment;
- b. Demonstrate how to properly load sterilizers;
- c. Demonstrate how to read and interpret physical and chemical monitors used in sterilization and high-level disinfection equipment;
- d. Explain how items should cool after steam sterilization;
- e. Demonstrate how to label instrumentation and equipment;
- f. Explain the purpose of sterile load stickers;
- g. Demonstrate how to use and place process challenge devices to validate sterilization methods;
- h. Demonstrate how to incubate, read, and record biological monitors used to assess sterilization parameters;
- i. Demonstrate appropriate technique for closing and sealing packages;
- j. Demonstrate how to select and use appropriate materials for sterilization packaging;
- k. Demonstrate how and when to use immediate use steam sterilization;
- l. Explain how to inspect packaging materials for sterilization;
- m. Demonstrate how to differentiate when it is appropriate to use the various types of packaging materials for sterilization;
- n. Perform basic packaging procedures with peel pouches, flat wraps, and rigid containers; and
- o. Demonstrate how to document sterilization loads.

**Major Topics to Be Included:**

- a. High-temperature sterilization
- b. Low-temperature sterilization
- c. Point-of-use sterilization

- d. Flat wrapping
- e. Rigid containers
- f. Peel pouches
- g. Process challenge devices
- h. Biological indicators
- i. Physical and chemical monitors
  - o Labeling methods
  - o Sterilization testing
  - o Sterilization package integrity
  - o Loading and unloading sterilizers
  - o Sterilization cycle parameters
  - o Sterilization failures and recalls
  - o Sterile load stickers
  - o Documentation of sterilization
  - o Instrument and equipment cooling
  - o Instrument and equipment packaging

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