1. **COURSE ID:** FIRE 725  
   **TITLE:** Fire Apparatus and Equipment  
   **Units:** 3.0 units  
   **Hours/Semester:** 48.0-54.0 Lecture hours; and 96.0-108.0 Homework hours  
   **Method of Grading:** Letter Grade Only  
   **Recommended Preparation:** Eligibility for ENGL 100 or ENGL 105. FIRE 715

2. **COURSE DESIGNATION:**  
   **Degree Credit**  
   **Transfer credit:** CSU

3. **COURSE DESCRIPTIONS:**  
   **Catalog Description:**  
   This course covers the operation, care and maintenance, specifications, capabilities and effective use of fire service apparatus and related equipment.

4. **STUDENT LEARNING OUTCOME(S) (SLO'S):**  
   Upon successful completion of this course, a student will meet the following outcomes:  
   1. Identify fire service apparatus and fire service equipment  
   2. Describe fire service apparatus and equipment features and uses  
   3. Explain apparatus operations for fire scene/emergency needs

5. **SPECIFIC INSTRUCTIONAL OBJECTIVES:**  
   Upon successful completion of this course, a student will be able to:  
   1. Identify fire service apparatus and fire service equipment  
   2. Describe fire service apparatus and equipment features and uses  
   3. Explain apparatus operations for fire scene/emergency needs

6. **COURSE CONTENT:**  
   **Lecture Content:**  
   1. Introduction  
      A. Fire apparatus – general overview  
      B. Apparatus development  
      C. Apparatus specifications – NFPA 1901  
      D. Power development and transmission  
      E. Future trends  
   2. Pumping Apparatus  
      A. Pump designs  
      B. Pump accessories  
      C. Performance factors  
      D. Pumping principles  
      E. Hydrant operations  
      F. Tank operations  
      G. Water supply problems  
      H. Drafting operations  
      I. Pump tests  
      J. Troubleshooting  
   3. Specialized Equipment  
      A. Aerial apparatus  
         a. Special operations with aerial apparatus  
      B. Variations and combinations of pump and aerial apparatus  
         a. Quads  
         b. Quints  
      C. Fire boats  
      D. Airport apparatus  
      E. Rescue vehicles  
      F. HazMat vehicles
4. Operating Apparatus at Emergencies
   A. Hazards and techniques of emergency response
      a. Liability
      b. Driving laws
   B. Effective use of apparatus

7. **REPRESENTATIVE METHODS OF INSTRUCTION:**
   Typical methods of instruction may include:
   A. Lecture
   B. Activity
   C. Discussion

8. **REPRESENTATIVE ASSIGNMENTS**
   Representative assignments in this course may include, but are not limited to the following:
   
   **Reading Assignments:**
   Pre-reading for the class session
   
   **Other Outside Assignments:**
   Prepare for oral presentation

9. **REPRESENTATIVE METHODS OF EVALUATION**
   Representative methods of evaluation may include:
   A. Exams/Tests
   B. Oral Presentation
   C. Quizzes

10. **REPRESENTATIVE TEXT(S):**
    Possible textbooks include:
       Protection Association (NFPA), 2014

    **Origination Date:** August 2016
    **Curriculum Committee Approval Date:** October 2016
    **Effective Term:** Fall 2017
    **Course Originator:** Michelle Schneider