Concentration Specific Outcomes and Competencies:

1.1 Possess the skill and ability to understand and interpret construction documents.

1.2 Have an understanding of the various components of the Construction Management process.

1.3 Have an understanding of the many functional relationships, roles, and responsibilities between the stakeholders and participants involved with the construction process.

1.4 Have an understanding of and the skill to use a variety of the physical (tools, equipment, and materials), financial, and computing-based resources used to support CM operations.

1.5 Have an understanding of and appreciation of the value and importance of how construction documents define the rights, responsibilities, and relationships, among all the parties that are necessary for the successful completion of any construction project. How the architect/engineer (A/E), the contractor(s) and all the other project participants must work within guidelines for successful project conception, design, and construction and the importance of standardized construction document format.

1.6 Have an understanding of and appreciation of construction project administration and management, including communications, engineering concepts, management concepts, materials, methods, planning, scheduling, sequencing, procurement, crew distribution, project modeling and visualization.

1.7 Have understanding and appreciation of the material properties of soils, concrete, masonry, steel, and lumber, excavation, compaction, column, beam, and slab schedules, shoring systems, construction economics and of construction geometrics and construction safety.

1.8 Have an understanding and skill to estimate the costs of various construction activities and the application of primary concepts used in the analysis and control of costs pertaining to planning, development, and managing construction operations.