IS446 – Systems Analysis and Design
Instructor: Kevin Trainor
Assignment: Conceptual Data Model Assignment
Course Component: Skills Practice Assignments
Grading Rubric

Base Point Allocation

Base Points (23 available points)

Requirements
Assignment submitted on-time or within the allowable late period.

Percent Credit	Description
100	Meets all expectations.
0	Not submitted or submitted too late.

Submission

Timeliness (16 available points)

Requirements

Must be submitted by date and time indicated in the weekly schedule.

Percent Credit	Description
100	On Time
0	Late
0	Not submitted or submitted too late

Physical Submission (10 available points)

Requirements

One (and only one) submission should be made to the Canvas submission activity.

The file must be named according the conventions described in the instructions.

The file submitted must be of type .PDF

Percent Credit	Description
100	Meets all expectations.
50	Meets nearly all expectations.
0	Does not meet expectations.
0	Not submitted or submitted too late.

Exercise 1 (Regular)

Completeness (23 available content points)

Requirements
Diagram should include entity types to support all functional requirements included in the scope.
Diagram should include relationship types to support all functional requirements included in the scope.
Diagram should include attributes to support all functional requirements included in the scope.
Each entity type should have one or more attributes designated as the identifier.

Percent Credit	Description
100	Meets all expectations.
90	Meets nearly all expectations.
75	Meets most expectations.
50	Meets some expectations.
25	Meets few expectations.
10	Meets nearly no expectations.
0	Meets no expectations.
0	Not submitted or submitted too late.

Technique (23 available content points)

Requirements
Entity types must be represented as rectangles.
Entity types must have singular names that are nouns or noun phrases.
Attributes must be represented as text entries within the rectangles.
Identifiers must be distinguished from other attributes (with ID or other notation).
Relationships should have names that are verbs or verb phrases. Relationships surrounding associative entities need not be named.
Cardinality should be indicated at both ends of the relationship line using crow's foot notation.
Cardinality values should be appropriate to implement the scope.
Relationships that hold data must be represented with an associative entity that includes the attributes needed to hold the data.
An attribute should appear on only one entity type (Conceptual data models should not carry redundant data).
Attributes should be located on the one entity type on which they depend.

Percent Credit	Description
100	Meets all expectations.
90	Meets nearly all expectations.
75	Meets most expectations.
50	Meets some expectations.
25	Meets few expectations.
10	Meets nearly no expectations.
0	Meets no expectations.
0	Not submitted or submitted too late.

Exercise 2 (Challenge)

Completeness (2 available content points)

Requirements
Diagram should include entity types to support identifying which employee performed which system parts of the process (picking, packing, etc.).
Diagram should include relationship types to support identifying which employee performed which system parts of the process (picking, packing, etc.).
Diagram should include attributes to support identifying which employee performed which system parts of the process (picking, packing, etc.).
Each entity type should have one or more attributes designated as the identifier.

Percent Credit	Description
100	Meets all expectations.
90	Meets nearly all expectations.
75	Meets most expectations.
50	Meets some expectations.
25	Meets few expectations.
10	Meets nearly no expectations.
0	Meets no expectations.
0	Not submitted or submitted too late.

Technique (3 available content points)

Requirements
Entity types must be represented as rectangles.
Entity types must have singular names that are nouns or noun phrases.
Attributes must be represented as text entries within the rectangles.
Identifiers must be distinguished from other attributes (with ID or other notation).
Relationships should have names that are verbs or verb phrases. Relationships surrounding associative entities need not be named.
Cardinality should be indicated at both ends of the relationship line using crow's foot notation.
Cardinality values should be appropriate to implement the scope.
Relationships that hold data must be represented with an associative entity that includes the attributes needed to hold the data.
An attribute should appear on only one entity type (Conceptual data models should not carry redundant data).
Attributes should be located on the one entity type on which they depend.

Percent Credit	Description
100	Meets all expectations.
90	Meets nearly all expectations.
75	Meets most expectations.
50	Meets some expectations.
25	Meets few expectations.
10	Meets nearly no expectations.
0	Meets no expectations.
0	Not submitted or submitted too late.

Total Available Points = 100

Please Note: This grading rubric allows for adjustments to be made to your content point score. The total number of content points available to be awarded on this assignment is 51. An adjustment of up to 36 content points may be made for submissions that have a low content point score and yet meet the following criteria: Assignment must be submitted on time. Work submitted must show good faith effort on all REGULAR EXERCISES. It is possible to qualify for the points adjustment without having submitted work on the CHALLENGE EXERCISE.