**CSCI 5333.4 DBMS Mid-Term Examination**

**Grading Notes**

(1) You are encouraged to improve both your modeling skill and general understanding ability.

* Missing classes, e.g.
	+ Consignment transaction
	+ Item pricing
* Unnecessary classes:
	+ Not every noun becomes a class!
	+ Output requirements do not always become classes. You just need to make sure that they are supported.
	+ E.g.
		- Consignment company: it is a singleton.
		- Goods
		- Tax
		- Pricing history
		- Change Price
		- Display\_Sale
		- Price Tag
		- History
		- Display
* Missing multiplicities, e.g.
	+ 1 to 1 between item and pricing.
* Incorrect multiplicities. E.g.
	+ 1 to many association between merchandize item and category.
	+ Many to many association between Sold Item and Item.
* Missing associations
	+ Item sold not associated with item.
	+ Staff as an attribute in the class Item instead of using an association between the classes Staff and Item.
	+ No association between Item and Category.
	+ No association between item and pricing classes.
* Unnecessary associations: e.g.
	+ Association between categories to indicate sub-categories.
	+ Many to many association between staff and item.
	+ Between owner and category.
	+ Between staff and category
	+ Between owner and staff
* Incorrect associations: e.g.
	+ Aggregation between Item and Category (seeing the keyword “belongs to” does not always mean aggregation.)
* Missing attributes: e.g.
	+ Address
	+ StaffId
	+ Pricing information
* Unnecessary attributes: e.g
	+ Various Ids from other classes.
	+ Model and color in merchandize items.
* Using attributes instead of classes, e.g.:
	+ Prices and effectives as attributes in items.
* Incorrect use of generalization, e.g.:
	+ Price as a superclass of display price, baseline price and effective date.
	+ Staff as a superclass of employee and owner.
* Incorrect UML class notations, e.g.:
	+ No separate compartment
	+ Mixing relational or ER notations
* Poor naming, e.g.:
	+ Unique code
	+ Recording
	+ Owner ‘views’ Merchandise Item
	+ Details (as a class name)
	+ O\_Optional\_Email
* Objects modeled as classes. E.g.
	+ Category1, Category2, Category3