**BCIS 5120**

**Lab 2**

**Activity Diagram**

**Use Visio to Draw Activity Diagrams:**

Tutorial: [**https://www.youtube.com/watch?v=zrtTA6lds3w**](https://www.youtube.com/watch?v=zrtTA6lds3w)

Develop activity diagrams based on the following narratives. Note any ambiguities or questions that you have as you develop the model. If you need to make assumptions, also note them.

Remember to include swim lanes in your diagrams.

You can add multiple pages (tabs) in a single Visio file.

**Diagram 1.**

The purchasing department handles purchase requests from other departments in the company. People in the company who initiate the original purchase request are the “customers” of the purchasing department. A case worker within the purchasing department receives the request and monitors it until it is ordered and received.

Case workers process requests for the purchase of products under $1,500, write a purchase order, and then send it to the approved vendor. Purchase requests over $1,500 must first be sent out for bid from the vendor that supplies the product. When the bids return, the case worker selects one bid and then writes a purchase order and sends it to the vendor.

Find activities and actions

* Customers send in requests
* Case workers receives the request
* Case worker monitors the request
* Case worker process orders under 1,500
* Write a purchase order
* Send to the approved vendor

Order over 1500

* Case worker sends out for bid
* Wait for bid

Bid returns

Case worker selects one bid

Case worker writes a purchase order

Case worker sends to the vendor

**Diagram 2.**

The shipping department receives all shipments on outstanding purchase orders.

* When the clerk in the shipping department receives a shipment,
* he or she finds the outstanding purchase order for those items.
* The clerk then sends multiple copies of the shipment packing slip.
  + One copy goes to Purchasing, and the department updates its records to indicate that the purchase order has been fulfilled.
  + Another copy goes to Accounting so a payment can be made.
  + A third copy goes to the requesting in-house customer so he or she can receive the shipment.

After payment is made, the accounting department sends a notification to Purchasing. After the customer receives and accepts the goods, he or she sends notification to Purchasing. When Purchasing receives these other verifications, it closes the purchase order as fulfilled and paid.

Receive shipments

Find the outstanding purchase order

Send copies of shipment packing slip [DECISION]

* PURCHASING
  + Update record of fulfilled order
* ACCOUNTING
  + Process payment
  + Send a notification to purchasing
* CUSTOMER
  + Receive the shipment
  + Send notification to purchasing

**Please submit on Canvas:**

1) the Visio file containing your diagrams, and 2) screenshots of your diagrams