# Process Sheet –Cam 1109 Lab 2- Lathe Widget 2 (Page 1 of 2)

- 1) Chuck part in 1" collet with 2 1/2" sticking out
- 2) Face end of part (Bare Minimum Clean Up) 654 RPM with carbide insert
- 3) Turn .747/.753 diameter x 2.25" length 654 RPM with carbide insert
- 4) Turn .491/.498 diameter x 1.00" length 654 RPM with carbide insert
- 5) Groove .420 diameter at 1 inch location 654 RPM with carbide insert
- 6) Groove .630 diameter at 2.25 inch location 654 RPM with carbide insert
- 7) Use lathe to make a line at 1.220" for end of 60 degrees 654 RPM with carbide insert

(continued on Page 2)

## **Video Resources**

## 2.1 – Setup of Lathe

ADD A QR CODE HERE TO PROVIDE EASY ACCESS TO THE LAB VIDEO

#### 2.2 - Turn Main Diameter

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#### 2.3 - Turn Thread Dia.

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## 2.4 - Groove 1&2

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## Process Sheet - Lab 2- Lathe Widget 2

(Page 2 of 2)

- 8) Turn 60 degree taper 654 RPM
- 9) Set up lathe to chase ½ 20 UNF 2 B 95 RPM
- 10) Use lathe to make line for overall length at 2.75 plus 1/16 use cut off tool654 RPM
- 11) Chuck part in ¾ inch collet & face to 2.75 overall length
- 12) Center drill end 3/8" wide
- 13) Drill with Q drill 1 1/8 inch deep
- 14) Tap hole 3/8 24 thread 5/8 deep with tap wrench & tail stock
- 15) Knurl head to print specs, chamfer as indicated and deburr

## **Video Resources**

# 2.5 – Line & Taper

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#### 2.6 - Thread

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#### 2.7 - Cut Off

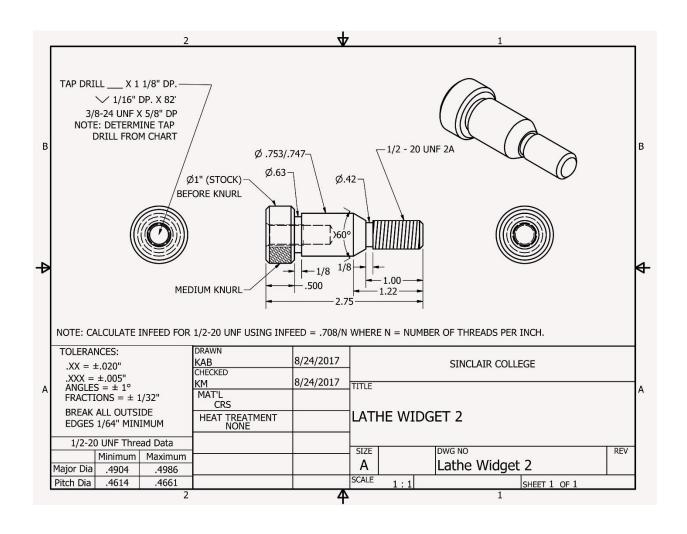
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## 2.8 - Lathe Tapping

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## 2.9 - Knurling

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