

# ITP 308: Lab 6

## Setup

In this assignment you will use a **single loft** to create the bowling pin shown in the following page. The origin of the part is at the base of the pin, along the axis of cylindrical symmetry.

You may use these features:

Loft (at least one)

Dome (only one)

Fillet (only one)

Boss Extrude (only one)

Cut Extrude (at most one)

Revolve Cut (at most one)

## Requirements

The bowling pin is made of Maple Wood. You must use the drawing's dimensions to recreate the bowling pin. The origin must be in the correct location and should be in the correct orientation.

## Mass Properties

These values must be correct to within a 1% error

	Bowling Pin
Mass (lbs)	2.27
COM X (in)	0.00
COM Y (in)	5.81
COM Z (in)	0.00

## Deliverables

Name your file:

**BowlingPin.sldprt**

Compress into a single zip file and name it:

***username\_lab6.zip***

Where *username* is your USC username.

## Rubric

You will be graded on the following items:

Item	Points
Origin is correctly placed	2

<b>Material is correct</b>	2
<b>Has at least one loft</b>	1
<b>Uses only listed features</b>	2
<b>Sketches are not under-defined</b>	2
<b>Mass properties is correct within 1%</b>	3
<b>Total</b>	12