Last updated 1/18/24

- Lithography
 - Process of making patterns on/in a material
 - Critical to Integrated Circuit processing
 - Components
 - Patterned mask
 - Photo resist
 - Resist removal
 - IC processing technology

- Cover the wafer with a photo-sensitive material
 - Positive or negative photoresist

photoresist

Si / oxide / metal

Mask

Photoresist

(positive)

- Shine light through a pre-patterned mask
 - Mask is not touching the wafer/photoresist
 - Positive resist becomes soluble when light is shined on it
 - Negative resist becomes in-soluble when light is shined on it



Si / oxide / metal

In-soluble

soluble

- Wash the wafer with a solvent
 - Soluble resist is removed



In-soluble

Photoresist

(positive)

- Perform desired silicon processing
 - Photoresist acts like a mask om the wafer surface



- Perform desired silicon processing cont'd
 - Deposition +



- Remove photoresist
 - Use a solvent that removes all photoresist

