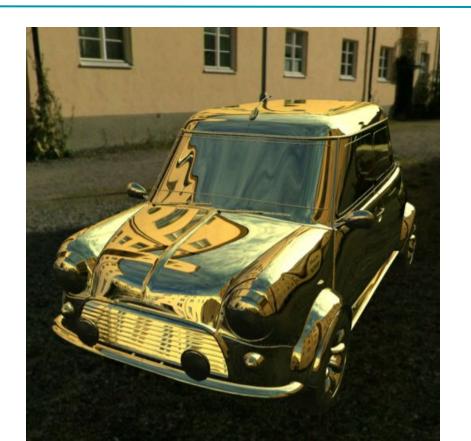
#### **Computer Graphics**

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https://www.cise.ufl.edu/research/SurfLab/qfxNotes/cap5705idx

This syllabus page will evolve!

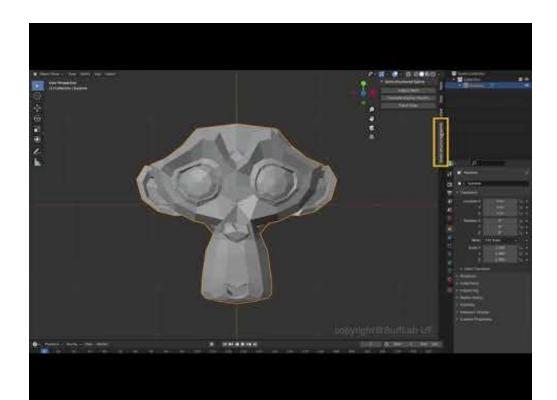
https://www.cise.ufl.edu/research/SurfLab/qfxNotes/cap5705/CGsyllabus.html

#### Structure:

- Curves (1 variable)
- Polyhedra (2 variables, linear)
- Surfaces (2 variables, curved)

### **Cool tools (not covered)**

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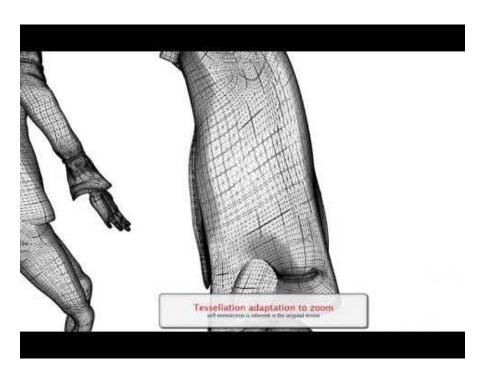


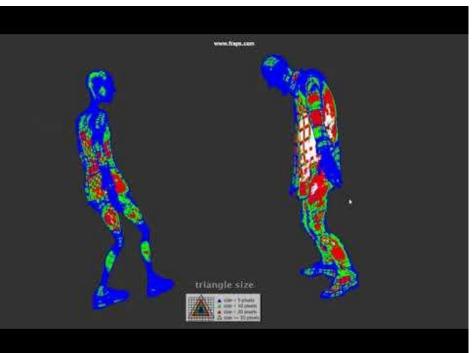
**Blender** 

**Surgical simulation** 

#### Animation (not covered)

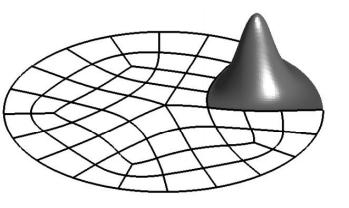
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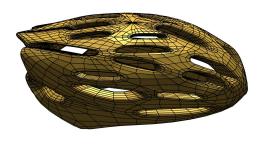


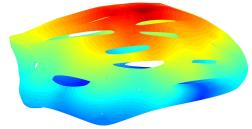


# Design & analysis (not covered)

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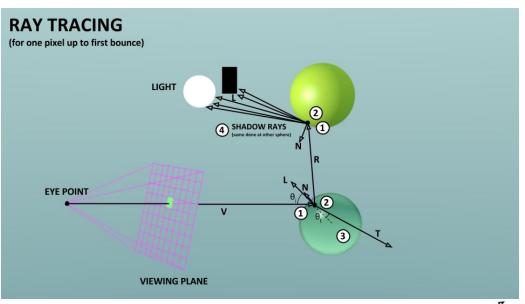




## Ray Tracing (not a focus)

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Sphere equation:  $(\vec{p} - \vec{c}) \cdot (\vec{p} - \vec{c}) = r^2$ 

Ray equation:  $\vec{r}(t) = \vec{o} + t\vec{d}$ 

Intersection:

