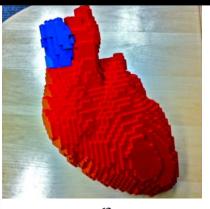
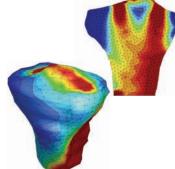
new course announement winter 2012

## me337 mechanics of growth

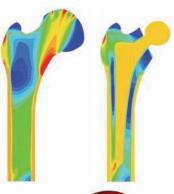
a project-based course on growing tissues and scientific writing

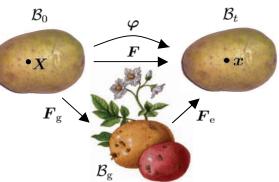
winter 2012 me 337 tue / thu 09:30 - 10:45 300/020









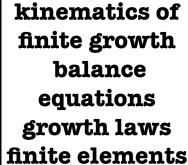




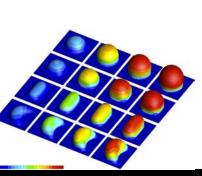


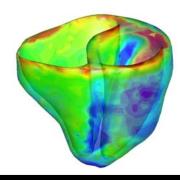


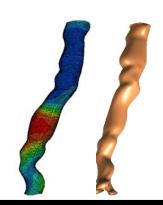




bone growth tumor growth arterial growth skin growth muscle growth cardiac growth







## class papers from previous final projects

[1] pang h, shiwalkar ap, madormo cm, taylor re, andriacchi tp, kuhl e. computational modeling of bone density profiles in response to gait: a subject-specific approach. biomech mod mechanobio, doi:10.1007/s10237-011-0318-y. [2] buganza tepole a, ploch cj, wong j, gosain ak, kuhl e. growing skin - a computational model for skin expansion in reconstructive surgery. j mech phys solids, 2011;59:2177-2190.

[3] taylor re, zheng c, jackson rp, doll jc, chen jc, holzbaur krs, besier t, kuhl e. the phenomenon of twisted growth: humeral torsion in high performance tennis players. comp meth biomech biomed eng. 2009;12:83-93.