Music 109/209N & MAT 276N
SPECIAL TOPICS IN ELECTRONIC MUSIC: MODULAR SYNTHESIS
Instructor: Curtis Roads
Spring 2016
Wednesday 4-6:30 (this may change depending on student input) + lab
Studio Xenakis (Music 2215)

This course combines historical, theoretical, and practical hands-on approaches using CREATE’s three modular analog/digital synthesizers.

Topics include: history of electronic music, pioneers of analog computing, principles of voltage-control, clock generators, function generators/oscillators, filters/gates, mixers, panners, sequencers and step-function generators, voltage-controlled effects processing, analog and digital logic, pressure-sensitive haptic interfaces, voltage quantizers, and keyboard control.

Students will practice sound synthesis and processing using a variety of methods all under the regime of analog and digital computation and voltage control.

Past students are welcome to repeat the course to create new projects.