

**SYMMETRY IN PHYSICS & BIOLOGY –
PART OF A MULTIMEDIA COURSE*,A**

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Seeing Through Symmetry is a course that introduces non-science majors to the pervasive influence of symmetry in nature, mathematics, and art. The concept of symmetry is used both as a link between subjects (such as physics, biology, mathematics, music, and poetry) and as a method within a subject. This is done through the development and use of interactive multimedia learning environments that (1) foster active learning, (2) engage important cognitive assets that many students underutilize, and (3) provide powerful evaluative tools to provide students with feedback, encouragement, and diagnostic information about individual learning needs. Computer-based labs enable the student to further explore the concept by being gently led from the arts to science. This talk is an explanation and demonstration, applied to physics and molecular genetics, on how a variety of interactive multimedia tools contribute to both the lecture and lab portion of the course.

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A Special Equipment: It will be necessary to be able to play and project, on a large screen, Mac material from a CD containing our multimedia demonstration. The equipment should also have sound capabilities.