PROGRAM: Summer Smart, Summer Fun – Valpo Campus

GENERAL DESCRIPTION:
Exploring Physics with High Speed Video (Troublemaking in Slow Motion)
Through hands-on activities and the use of high speed video cameras you will discover the simple and sometimes complex physics of motion. We miss so many things going on around us because our eyes are not quick enough to see the details. In this class we will take a close look at dripping water, exploding water balloons, breaking glass, smashing fruit, karate, popping bubbles, and smoke rings. Students will record and edit videos to demonstrate and explain these physical phenomena. Students will learn concepts of relative motion, uniform acceleration, force, impulse, momentum, surface tension, buoyancy, Pascal’s Principle, Newton’s Laws, the Ideal Gas Law, Hooke’s Law, and the Coriolis Effect. But we will skip the math and theoretical physics — it is summer, after all.

GRADE LEVEL: 7th – 8th grade

REQUIREMENTS: 1) Prerequisite: ED 357; 2) Good standing with the MSEED Program

STIPEND: $10 per hour (minimum of 120 hours, maximum of 167 hours, in consultation with your mentor). Housing will also be provided on VU’s campus.

HOW TO APPLY: Approval form is available on the MSEED website (http://www.valpo.edu/mseed/for-current-students/).

DEADLINE: Approval forms are due the Friday following spring break. Applicants will be notified by April 1st.

QUESTIONS? Please contact Jennifer Easthope (Jennifer.Easthope@valpo.edu | 464-5982).