

CREATIVE SCIENTIFIC INQUIRY
EXPERIENCE PRESENTS:

Rockets & Roller Coasters



In this cluster, calculus and physics students will apply such principles as vector analysis, integrals, velocity, and Newtonian laws to model real-life applications.

Students will work individually and in teams to analyze limitations in real and hypothetical systems and then create a safer alternative model or scenario.

Hands-on activities are currently under development and may include model rockets and roller coasters; bicycle and multi-sport helmet safety testing, vehicle crash test analysis, and a Halloween or Thanksgiving Pumpkin Smash!

Results will be disseminated through “public awareness” posters at the end of term.

CSIE student scholars will:

- ✓ Research poorly engineered systems
- ✓ Describe what went wrong and why
- ✓ Propose and test alternatives
- ✓ Model the impact of impacts

CSIE Squash Squish

Dates, times, location, and other details to be determined...

CSIE SCHOLARS ENJOY:

- ✓ Convenient, day-time labs and smaller lecture sections,
- ✓ Hands-on research experiences and extended office-hours with professors,
- ✓ Free use of textbooks, lab manuals, and other course materials through the **CSIE Book Loan** program,
- ✓ An integrated science curriculum with projects, activities, and classroom examples that make the connections between subjects easier to see.

Enroll in this CSIE by entering all CRNs into the 'add classes' worksheet using the student services and registration links in your my.emich account.

CRN	CRSE	DAY	TIME
13332+ any lab*	PHY 223	TR F	11:00-12:50 12:00-12:50
14413	MATH 121	MTWF	9:00-9:50
17169	CSIE 277	F	11:00-12:00

*You may choose any PHY 223 lab. Convenient times include CRN 13333 on Wed 11:00am-12:50pm or 16658 on ThR from 9:00am-10:50am.

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