Frequently Asked Questions

Q: How do I sign up for undergraduate research?
Answer: First, you must approach a faculty member who is doing research that interests you, and request to work with them. Together, you will settle on a research topic and decide the number of credits you will pursue. Then fill out the Undergraduate Research form (see other side) with your research advisor and contact Tim Gasperich to take the safety test. Once you have passed the safety test, drop off the completed form in the main CM office (203 Chem Sci). A waiver will be entered and you will then be able to enroll yourself in the undergraduate research course using Banweb.

Q: What does the research count towards?
Answer: Up to 6 credits total of undergraduate research may count towards core engineering elective requirements. Additional credit may count towards free electives.

Q: May I do research for more than one semester and for more than one research advisor?
Answer: Yes.

Q: May I enroll for undergraduate research in the summer?
Answer: Yes, if your research advisor agrees.

Undergraduate Research in Chemical Engineering at Michigan Tech

Research is the production of new knowledge, and at Michigan Tech undergraduates who are interested in research are welcome to join with faculty members to conduct research in a wide variety of fields. Undergraduate research may be taken for credit (1-3 credits for 3-9 hours/week of research work) and counts in the curriculum as a core engineering elective.

Bioengineering
C. Heldt – biochemical engineering
A. Minerick – bioengineering
A. Peng – bio-based products
R. Shonnard – bioprocessing
W. Zhou – biofuels

Mineral Processing Engineering
T. Eisele – mineral processing
S. K. Kawatra – mineral processing

Polymer Engineering
G. Caneba – polymers
J. King – polymer composites
F. Morrison – polymer rheology

Alternative Energy
D. Shonnard - biofuels
W. Zhou – biofuels

Process Safety Design and Control
T. Rogers – chemical property data
T. Co – advanced process control
J. Sandell – fire protection

Nanotechnology
G. Caneba – nanotech
M. Mullins – new materials

Advisors:
Ms. Katie Torrey
Dr. Faith Morrison
Undergraduate Research

Course Request Information

M number: M Name: ___________________________ Email: ________________

Faculty Name: ___________________________ Semester: _____________

CRN: _______________ (Circle) Course #: CM 4000 CM 4040

CM 4020 CM 4060
Section: _______________

Project Description

Title of project: ____________________________________________________________

Brief summary of the project.

Circle the work load/credits requested (3 credits max per semester):

3 hrs/week = 1 cr 6 hrs/week = 2 cr 9 hrs/week = 3 cr

Note: Up to 6 credits can count towards your core engineering electives. Additional credits can count towards your free electives.

Which type of report is required?

Written Poster Oral Presentation None

**Please plan to participate in the department’s Student Research Forum held during fall semester. This is an opportunity for you to present a poster of your research experience.

_________________________________________  ___________________________________________
Student Signature and date                 Faculty Signature and date
(I AGREE to supervise this project.)

Contact Tim Gasperich after completing this form to take the safety test (tpgasper@mtu.edu). Once you have passed the safety test, drop off this completed form in the main Chem Eng office (ChemSci 203). You will be contacted via email when you are able to register yourself for the class.

Office Use

Safety Test Score: ___________ Date: ___________ Passing score: 80%

Waiver Entered By: ___________ Date: ___________

☐ Student Contacted
☐ Copy in faculty mailbox (put original in advisor’s mailbox)