MATERIALS SCIENCE (MSCI)

MSCI 291 Special Topics in Materials Science (1-3 crs)
Prerequisite: CHEM 104 or CHEM 109 or CHEM 115; PHYS 232; MSE 221
Consent: Instructor Consent Required
• Field trips optional. A total of no more than nine credits from MSCI 291 and MSCI 491 may be applied toward major or graduation.

Lecture and possibly laboratory or field work in the study of current topics in Materials Science of special interest to students and faculty.
Repeat: Course may be repeated for a maximum of 9 credits

MSCI 384 Materials Science Junior Seminar (1 cr)
Prerequisite: MSE 286
Career preparation for Materials Science majors, including ethics and other discussions relevant to the major. Will include seminars with external speakers and class discussions of relevant issues.
Lab/Studio Hours: 0
Seminar Hours: 1

MSCI 385 Materials Science Junior Seminar II (0.5 crs)
Prerequisite: MSCI 384
The second course in the junior seminar course sequence. Will include seminars with external speakers and class discussions of relevant issues.
Lab/Studio Hours: 0
Seminar Hours: .5

MSCI 395 Directed Studies (1-3 crs)
Prerequisite: Minimum 2.0 GPA in Materials Science or Materials Science & Engineering comprehensive majors
Consent: Department Consent Required
This course is designed to allow a single student or a group of students to pursue their educational goals and interests under the direction of a faculty member.
Repeat: Course may be repeated
Grading Basis: A-F Grades Only

MSCI 399 Independent Study - Juniors (1-3 crs)
Prerequisite: Minimum junior standing.
Consent: Department Consent Required
This course provides junior-level students with research opportunities in Materials Science or Materials Science & Engineering.
Repeat: Course may be repeated
Grading Basis: A-F Grades Only

MSCI 484 Materials Science Capstone I (1 cr)
Prerequisite: MSE 350; Credit may not be earned in both MSCI 480 and MSCI 484
First of a two-course capstone sequence. This course emphasizes hands-on, project-based experiences that are formulated and executed by the student.
Lab/Studio Hours: 0
Seminar Hours: 2

MSCI 485 Materials Science Capstone II (2 crs)
Prerequisite: MSCI 484; Credit may not be earned in both MSCI 485 and MSCI 481
Second of a two-semester capstone sequence. This course emphasizes writing projects based on student designed experiments.
Attributes: LE-I1 Integration
Lab/Studio Hours: 0
Seminar Hours: 4

MSCI 491 Special Topics in Advanced Materials Science (1-3 crs)
Prerequisite: MSCI 300. Limited to Materials Science or Materials Science & Engineering majors.
Consent: Instructor Consent Required
• Field trips optional. A total of no more than nine credits from MSCI 291 and MSCI 491 may be applied toward major or graduation.

Lecture and possibly laboratory or field work in the study of current topics of Materials Science of special interest to advanced students and faculty.
Repeat: Course may be repeated for a maximum of 9 credits

MSCI 499 Independent Study - Seniors (1-3 crs)
Prerequisite: Minimum senior standing.
Consent: Department Consent Required
This course provides senior-level students with research opportunities in Materials Science or Materials Science & Engineering.
Repeat: Course may be repeated
Grading Basis: A-F Grades Only