361. Asian Literature in English or in English Translation
Spring, 3(3-0) Interdepartmental with English. Administered by English. P: Completion of Tier I writing requirement. 3 credits of literature.
Literary traditions of a major Asian civilization—Chinese, Indian or Japanese. Historical, cultural, and international contexts of Asian literature.

380. Methods of Teaching Foreign Languages
Spring of odd years, 3(3-0) P: GRM 202 or RUS 202 or CHS 202 or JPN 202 or approval of department. R: Open only to undergraduate students in the East Asian Languages and Cultures or German or Russian major with a teacher certification option or in the German or Japanese or Russian minor.
Methods of teaching Germanic, Slavic, Asian, and African languages for teacher education candidates. Theories of second language acquisition and practical application of teaching strategies.

413. Slavic Language I (MTC)
Fall, 4(4-1) A student may earn a maximum of 8 credits in all enrollments for this course. R: Approval of department.
Development of skills in speaking, reading, listening comprehension, and writing in a Slavic language other than Russian, such as Serbo-Croatian, Polish, Czech, or Ukrainian.
SA: RUS 413

414. Slavic Language II (MTC)
Spring, 4(4-1) A student may earn a maximum of 8 credits in all enrollments for this course. R: Approval of department.
Further development of skills in speaking, reading, listening comprehension, and writing in a Slavic language other than Russian, such as Serbo-Croatian, Polish, Czech, or Ukrainian.
SA: RUS 414

474. Aesthetic Theory and Modernism
Fall, 4(4-0) Interdepartmental with Philosophy; English; History of Art; Music; and Romance Languages. Administered by Philosophy. R: Not open to freshmen or sophomores.
Problems, assumptions, and arguments of modern aesthetic theory examined in the context of debates over modernity and modernist artistic practice.

490. Independent Study
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Approval of department.
Special projects in linguistics and languages arranged by an individual student and a faculty member in areas supplementing regular course offerings.

821. Proseminar in Comparative Literature
Fall, 3(3-0) Interdepartmental with Arts and Letters; English; and Romance Languages. Administered by Arts and Letters. R: Open only to graduate students in the College of Arts and Letters.
History and practice of comparative literature including foundational concepts and current directions.

822. Methods of Comparative Literature
Spring, 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Arts and Letters; English; and Romance Languages. Administered by Arts and Letters. R: Open only to graduate students in the College of Arts and Letters.
Case studies in international literary tradition, reception, and transmission. Approaches to genre and period. History and aesthetics of reception.

823. Seminar in Comparative Literary Criticism
Fall, 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Arts and Letters; English; and Romance Languages. Administered by Arts and Letters. R: Open only to graduate students in the College of Arts and Letters.
Theory and practice of comparative literary criticism, with attention to the development of critical approaches and to current topics in the critical literature.

825. Comparative Critical Theory
Spring, 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Arts and Letters; English; and Romance Languages. Administered by Arts and Letters. R: Open only to graduate students in the College of Arts and Letters.
Critical theory of comparative literature, including comparative studies in rhetorical theory and discourse analysis.

863. The Literatures of Africa and the Diaspora
Spring, 3(3-0) Interdepartmental with English; and Romance Languages. Administered by English. R: Open only to graduate students in College of Arts and Letters.
Literratures of Africa and the Diaspora with emphasis on Third World critical approaches, non-canonical perspectives, and problems.

991B. Topics in Comparative Literature
Fall, 3(3-0) A student may earn a maximum of 12 credits in all enrollments for this course. Interdepartmental with English; and Romance Languages. Administered by English. R: Open only to Ph.D. students. Approval of department.
Critical approaches to genre, periodization, and influence in English and other literatures.

991D. Topics in the Literature of Africa and the African Diaspora
Spring, 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with English; and Romance Languages. Administered by English. R: Approval of department.
Authors, movements, and cultures of the literature of Africa and the African diaspora.

991E. Topics in Anglophone South Asian Literature
Spring, 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with English. Administered by English. R: Open only to graduate students in College of Arts and Letters. Approval of department.
Analysis of an area of South Asian literature written in English.
Descriptions—Lyman Briggs School of Courses

144. Biology I: Organismal Biology
Fall, Spring. 4(3-3) R: Open only to students in Lyman Briggs School. Not open to students with credit in BS 110.
Modern biology at the organismal level of integration. Principles of genetics, evolution, ecology, and organismal diversity as interactive units.

145. Biology II: Cellular and Molecular Biology
Fall, Spring. 5(0-4) P: (LBS 144 or BS 110 or LBS 148H and (CEM 141 or concurrently or CEM 151 or concurrently or CEM 181H or concurrently or LBS 165 or concurrently) R: Open only to students in Lyman Briggs School. Not open to students with credit in BS 111.
Modern biology mainly at the cellular level of integration. Principles of cell structure and function are used to explain processes of bioenergetics, protein synthesis, and development.

148H. Honors Organismal Biology
Fall. 3(3-0) Interdepartmental with Biological Science. R: Honors College student or approval of school. Not open to students with credit in BS 110 or LBS 144.
Diversity and basic properties of organisms, with emphasis on genetic principles, ecological interactions, and the evolutionary process. Historical approach to knowledge discovery.

149H. Honors Cell and Molecular Biology
Spring. 3(3-0) Interdepartmental with Biological Science. P: (CEM 141 or concurrently or CEM 151 or concurrently or CEM 181H or concurrently or LBS 165 or concurrently) R: Honors College student or approval of school. Not open to students with credit in BS 111 or LBS 145.
Exploration of the physicochemical and molecular organization of cells as the unifying framework for genetics, evolution, and the social relevance of biology.

158H. Honors Organismal Biology Laboratory
Fall. 2(1-3) Interdepartmental with Biological Science. Not open to students with credit in BS 110 or LBS 144. C: LBS 148H concurrently.
Basic procedures used by organismal biologists, including experimental design and statistical methods. Development and implementation of research projects to test hypotheses in genetics, ecology, and evolution.

159H. Honors Cell and Molecular Biology Laboratory
Spring. 2(1-3) Interdepartmental with Biological Science. Not open to students with credit in BS 111L or LBS 145. C: LBS 149H concurrently.
Basic techniques of cellular and molecular biology including experimental design and hypothesis formulation. Student-initiated projects to test hypothesis-driven projects in biochemistry, molecular biology or genetics.

164. Introduction to Physics and Chemistry I
Fall. 3(4-0) P: (LBS 117 or concurrently or MTH 116) or designated score on mathematics placement test. R: Open only to students in Lyman Briggs School. Not open to students with credit in PHY 181B or PHY 183 or PHY 183B or PHY 193H or PHY 221 or PHY 231B.
Basic physics principles, problem solution techniques. Mechanical systems, elementary thermodynamics, vibrations and waves. Atoms and nuclei.

164L. Introductory Physics Laboratory I
Fall, 1(0-3) P: (LBS 164 or concurrently) R: Open only to students in Lyman Briggs School. Not open to students with credit in PHY 192 or PHY 251.
Techniques and instruments in the physics laboratory. Selected experiments in classical and modern physics.

165. Introduction to Chemistry and Physics II
Spring. 4(4-0) P: (LBS 164) R: Open only to students in Lyman Briggs School. Not open to students with credit in CEM 141 or CEM 152 or CEM 182H.

165L. Introductory Chemistry Laboratory I
Spring. 1(0-3) P: (LBS 165 or concurrently) R: Open only to students in Lyman Briggs School. Not open to students with credit in CEM 161 or CEM 185H.

220. Calculus III
Fall, Spring. 3(5-0) P: (LBS 119 or MTH 133) R: Open only to students in Lyman Briggs School. Not open to students with credit in MTH 234 or MTH 255 or MTH 254H or MTH 255H.
Continuation of LBS 119. Three-dimensional vector geometry, differential calculus of functions of two or three variables. Double and triple integrals, line integrals.

246. Experimental Projects in Biology
Spring. 1 to 3 credits. A student may earn a maximum of 5 credits in all enrollments for this course. P: (LBS 145) or (BS 111 and BS 111L) or (LBS 149H and LBS 159H) and completion of Tier I writing requirement. R: Open only to students in Lyman Briggs School.
Experiments, field studies. Selected problems in biology such as cell structure and metabolism, diversity, stability, evolution of natural communities, and reproductive biology.

266. Introduction to Chemistry and Physics II
Fall. 3(4-0) P: (LBS 165) and (LBS 118 or MTH 133 or concurrently) R: Open only to students in Lyman Briggs School. Not open to students with credit in CEM 142 or CEM 151 or CEM 181H.
Spectroscopy and symmetry. Coordination chemistry, solubility and stability constants. Electrochemistry, main group chemistry, atmospheric chemistry, organometallic chemistry. Polymers.

266L. Introductory Chemistry Laboratory II
Fall. 1(0-3) P: (LBS 165L and LBS 266 or concurrently) R: Open only to students in Lyman Briggs School. Not open to students with credit in CEM 162.
Synthesis and characterization of chemical systems.

267. Introduction to Physics and Chemistry II
Spring. 3(4-0) P: (LBS 118 or MTH 133) and (LBS 164 or concurrently) R: Open only to students in Lyman Briggs School. Not open to students with credit in PHY 182B or PHY 184 or PHY 184B or PHY 222 or PHY 232B or PHY 294H.
Principles of electromagnetic theory, special relativity, quantum physics, optics, atomic and subatomic physics.

267L. Introductory Physics Laboratory II
Spring. 1(0-3) P: (LBS 164L and LBS 267 or concurrently) R: Open only to students in Lyman Briggs School. Not open to students with credit in PHY 192 or PHY 252.
Selected experiments in classical and modern physics.

290B. Directed Study—Biology
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to students in Lyman Briggs School.
Directed studies in biology.

290C. Directed Study—Chemistry/Physics
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to students in Lyman Briggs School.
Directed studies in chemistry and physics.

290D. Directed Study—Mathematics
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to students in Lyman Briggs School.
Directed studies in mathematics.

290E. Directed Study—Science and Technology Studies
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to students in Lyman Briggs School.
Directed study in science and technology studies.
290F. Directed Study—Computing
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to students in Lyman Briggs School.
Directed studies in computing.

330. Topics in Science and Technology Studies
Fall, Spring. 4(4-0) P: (LBS 133) and completion of Tier I writing requirement. R: Open only to students in Lyman Briggs School majors.
Topics in history, sociology, and philosophy of science and technology. Science policy. SA: LBS 239

331. Literature and Science
Spring. 4(4-0) P: Completion of Tier I writing requirement. R: Open only to sophomores or juniors or seniors in Lyman Briggs School.
Representations of science and technology in texts drawn from science fiction, Gothic, and utopian literature or mainstream writings.

332. Technology and Culture
Fall. 4(4-0) Interdepartmental with American Studies. P: Completion of Tier I writing requirement. R: Open only to juniors or seniors in the American Studies major in Lyman Briggs School.
History of technology with special emphasis on the interaction of technical innovation and other elements of culture.

333. Topics in History of Science
Fall, Spring. 4(4-0) A student may earn a maximum of 8 credits in all enrollments for this course. P: Completion of Tier I writing requirement. R: Open only to juniors or seniors in Lyman Briggs School.
Various themes or periods in physical/biological science. May emphasize patterns of theory development, changes in explanatory aims and standards or interaction of social and cultural factors with scientific ideas, practices, instrumentation or experimentalism.

334. Science, Technology and Public Policy
Spring. 4(4-0) P: Completion of Tier I writing requirement. R: Open only to sophomores or juniors or seniors in Lyman Briggs School.
Science and technology in public policy formation considered from the perspectives of the history, philosophy, and sociology of science and technology.

335. The Natural Environment: Perceptions and Practices
Spring. 4(4-0) Interdepartmental with American Studies. P: Completion of Tier I writing requirement. R: Open only to sophomores or juniors or seniors in the American Studies major or in Lyman Briggs School.
American attitudes toward the natural environment and related public and private institutions.

336. Gender, Science, Technology (W)
Fall. 4(4-0) P: (LBS 133) RB: (LBS 144 and LBS 145) Topics such as: impacts of gender on the development of sciences and technologies; feminist critiques of science and technology; barriers to women's participation in science and technology; scientific constructions of sex, gender, and sexuality.

347. Advances in Applied Biology
Fall. 3(3-0) P: (LBS 145) or (BS 111 or concurrently and LBS 140H or concurrent and LBS 159H) and completion of Tier I writing requirement. R: Open only to juniors or seniors in Lyman Briggs School.
Advances in cell and molecular biology and application: plant and animal breeding, environment, and therapeutics.

355. Philosophy of Technology
Spring. 4(4-0) Interdepartmental with Philosophy. P: Completion of Tier I writing requirement. R: Open only to sophomores or juniors in Lyman Briggs School or the Department of Philosophy.
Examination of the desirability of technology, its social forms, and its alternatives. Conventional productivist, ecological progressive, and radical humanist outlooks.

425. American and European Health Care since 1800
Spring. 4(4-0) Interdepartmental with History. Administered by History. P: Completion of Tier I writing requirement. R: Not open to freshmen.

470. Clarion Science Fiction and Fantasy Writers’ Workshop
Summer. 4 credits. R: Approval of school. Application required.
A six-week, intensive workshop for science fiction writers early in their careers. Taught by professional writers and directed by MSU faculty. Competitive admission based on review of applicant manuscripts. Enrollment limited to 15-18.

483. Literature and Medicine
Spring. 3(3-0) Interdepartmental with English, Psychology. Administered by History. P: Completion of Tier I writing requirement. R: Not open to freshmen or sophomores.

490A. Advanced Directed Study—Multidisciplinary
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to juniors or seniors in Lyman Briggs School.
Directed advanced studies involving at least two LBS curricular areas: biology, chemistry, physics, mathematics, science and technology studies, computing.

490B. Advanced Directed Study—Biology
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to juniors or seniors in Lyman Briggs School.
Directed advanced studies in biology.

490C. Advanced Directed Study—Chemistry or Physics
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to juniors or seniors in Lyman Briggs School.
Directed advanced studies in chemistry or physics.

490E. Advanced Directed Study—Science and Technology Studies
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to juniors or seniors in Lyman Briggs School.
Directed advanced studies in science and technology studies.

492. Senior Seminar
Fall, Spring. 4(4-0) P: (LBS 239 or LBS 330 or LBS 331 or LBS 332 or LBS 333 or LBS 334 or LBS 345 or LBS 355 or LBS 406 or HST 425 or ENG 483) and completion of Tier I writing requirement. R: Open only to juniors or seniors in Lyman Briggs School.
Selected problems in the study of science and technology as human activities, using philosophical, historical, literary, social science or interdisciplinary perspectives or methods. Development and defense of thesis paper.

493. Field Experience
Fall, Spring. 1 to 10 credits. A student may earn a maximum of 10 credits in all enrollments for this course. R: Open only to juniors or seniors in Lyman Briggs School.
Experiential learning related to the public or private practice of science and technology.

MANAGEMENT

MGT

Department of Management
The Eli Broad College of Business
And The Eli Broad Graduate School of Management

302. Management and Organizational Behavior
Fall, Spring, Summer. 3(3-0) R: Open only to juniors or seniors. Managerial roles and functions in goal-directed institutions. Organization design, analysis of organizational structure. Leadership, motivation, work attitudes, conflict management, and management of diversity.

310. Human Resource Management (W)
Fall, Spring, Summer. 3(3-0) P: (MGT 302 or concurrently and completion of Tier I writing requirement. R: Open only to juniors or seniors. Formulation and administration of human resource policies in the business enterprise. Personnel planning, job analysis and evaluation, staffing, Compensation and labor relations. Employee safety. Training, development, and performance appraisal. Issues of diversity and ethics.