The Lyman Briggs College is a residential college that bridges the science and humanities through interdisciplinary teaching and research. It provides students with a fundamental core science education in mathematics, chemistry, biology, and physics. Additionally, the core program addresses historical, philosophical, and societal concerns and consequences of modern science, technology, the environment, and medicine. Advanced undergraduate courses in the student’s major are taken in the respective departmental units of the College of Natural Science, College of Engineering, College of Agriculture and Natural Resources, and the University at large. The majority of Lyman Briggs students pursue programs leading to advanced graduate study in the natural sciences, or professional programs related to medicine, dentistry, veterinary medicine, allied health, education or law. Many other students plan to enter careers in teaching at the secondary level, science writing, product representation, industry, or government service upon completion of their Bachelor of Science degree.

As a residential college, Lyman Briggs College has classrooms, laboratories, faculty offices, academic advisor offices, and administrative offices located in Holmes Hall, where all first year and many upper-level Lyman Briggs students live and learn. Because of this residential organization, students are able to develop a strong living-learning community identity by integrating academic and personal development, with faculty, staff and their peers in residence. Students are encouraged to balance their academic lives with social, cultural, athletic, service-learning, and leadership opportunities on campus and in the greater East Lansing community.

Students admitted to Michigan State University are admissible to Lyman Briggs College based initially on application date. There are no additional academic or program requirements for freshman admissions. Enrollment in the college is limited; therefore students are encouraged to apply early. Applicants should indicate their intention to become a part of the Lyman Briggs College on the Michigan State University Application for Admissions. If a student has already submitted an application and would like to apply to Lyman Briggs College, she/he should contact the Office of Admissions directly as early as possible.

Students work closely with their academic advisors and faculty in developing an individualized academic plan. All students enter the program as ‘no major’ status and may declare a major as early as summer orientation or by the time they have earned 56 credit hours.

Lyman Briggs College offers two minors: Bioethics; and History, Philosophy and Sociology of Science. Lyman Briggs College also participates in two minors: Entrepreneurship and Innovation; and Science, Technology, Environment, and Public Policy.

Students who are enrolled in the environmental biology/microbiology and microbiology coordinate majors in Lyman Briggs College may elect the Minor in Food Processing and Technology. For additional information, refer to the Minor in Food Processing and Technology statement in the Department of Food Science and Human Nutrition statement in the College of Agriculture and Natural Resources section of this catalog.

Admission as a Freshman to Lyman Briggs College
Any student who meets the general requirements for admission to the university as shown in the Undergraduate Education section of this catalog may enroll in Lyman Briggs College, pending available space.

Transfer Students
All students in good academic standing in Lyman Briggs College may transfer at any time to other programs at Michigan State University for which they are eligible, in order to accommodate changing academic needs and interests.

Students who wish to transfer into Lyman Briggs College should contact the Academic Affairs Office to make an appointment to consult with the Admissions Coordinator. Space in Lyman Briggs College is limited.
LYMAN BRIGGS COLLEGE
Undergraduate Program

UNDERGRADUATE PROGRAM

The Lyman Briggs College program leads to the Bachelor of Science Degree.

Requirements for the Bachelor of Science Degree in Lyman Briggs College

1. The University requirements for bachelor’s degrees as described in the Undergraduate Education section of this University catalog; 120 credits, including general elective credits, are required for the Bachelor of Science degree in Lyman Briggs College.

   Students who are enrolled in Lyman Briggs College may complete the alternative track to Integrative Studies in Biological and Physical Sciences that is described in item 1. under the heading Graduation Requirements in the College statement. Certain courses referenced in requirement 3. below are equivalent to courses in the alternative track and, therefore, may be used to satisfy the alternative track.

   The completion of the Lyman Briggs College mathematics and statistics requirement (referenced in item 3.c.(4) below) may also satisfy the University mathematics requirement. The completion of Lyman Briggs 133 or one of the approved alternatives (referenced in requirement 3.a.(5)(a) below) may also be counted toward the University Tier I writing requirement.

   The University’s Tier II writing requirement for the Major and Coordinate Majors in Lyman Briggs College is met by completing Lyman Briggs College 492 and one of the following courses: Lyman Briggs College 321A, 321B, 322A, 322B, 323A, 323B, 324A, 324B, 325A, 326A, 326B, 327A, or 327B. Those courses are referenced in items 3. a. (5) and 3. b. (6) below.

2. The requirements of Lyman Briggs College for the Bachelor of Science degree, referenced in item 3. a. below.

   The credits earned in certain courses referenced in requirement 3. below may be counted toward College requirements as appropriate.

3. The following requirements of Lyman Briggs College for the Bachelor of Science degree:

   a. CORE PROGRAM .................................... 46 to 55

      (1) Biology: One of the following groups of courses (8 to 10 credits):

          (a) Lyman Briggs 144, 145.
          (b) Biological Science 181H, 191H, 182H, 192H.
          (c) Biological Science 161, 171, 172.

      (2) Chemistry: One of the following groups of courses (8 to 10 credits):

          (a) Lyman Briggs 171, 171L, 172, 172L.
          (b) Lyman Briggs 171, 171L; Chemistry 143
          (c) Lyman Briggs 171, 171L; Chemistry 251.
          (d) Chemistry 141, 142, 161.
          (e) Chemistry 141, 143, 161.
          (f) Chemistry 141, 161, 251.
          (g) Chemistry 151, 152, 161.
          (h) Chemistry 181H, 182H, 185H.

      (3) Mathematics and Statistics: One of the following groups of courses (8 to 8 credits):

          (a) Lyman Briggs 118, 119.
          (b) Lyman Briggs 118; Statistics and Probability 231.
          (c) Mathematics 132, 133.
          (d) Mathematics 132; Statistics and Probability 231.
          (e) Mathematics 152A, 152B, 159.

      (4) Physics: One of the following groups of courses (8 to 8 credits):

          (a) Lyman Briggs 273, 274.
          (b) Physics 231, 232, 251, 252.
          (c) Physics 183, 184.
          (d) Physics 183B, 184B.
          (e) Physics 193H, 294H.

      (5) History, Philosophy and Sociology of Science: A total of 11 or 12 credits from the courses in groups (a), (b), and (c) below.

          (a) One of the following courses: Lyman Briggs 133; Writing, Rhetoric and American Cultures 101.
          (b) One of the following courses: Lyman Briggs 321A, 322A, 323A, 324A, 325A, 326A, 327A.
          (c) One of the following courses: Lyman Briggs 321B, 322B, 323B, 324B, 325B, 326B, 327B.

      (6) Senior Seminar: Lyman Briggs 492 (4 credits).

   b. MAJOR or COORDINATE MAJOR:

      Each student must complete the requirements of a Major or a Coordinate Major. The Major or Coordinate Major must be approved by the student’s academic advisor. With the approval of the appropriate Lyman Briggs College Curriculum Coordinator or Undergraduate Director, courses other than those that are listed as requirements for a Major or Coordinate Major may be used to satisfy degree requirements.

   Majors:

      Biology
      Computer Science

Earth Science
Environmental Science and Management
Physical Science
History, Philosophy and Sociology of Science

Coordinate Majors:

(1) College of Agriculture and Natural Resources:
   Animal Science
   Entomology
   Fisheries and Wildlife
   Food Science

(2) College of Engineering:
   Computer Science
   Students are admitted to this Coordinate Major after they have reached junior standing and have met certain other requirements specified by Lyman Briggs College.

(3) College of Natural Science:
   Actuarial Science
   Astrophysics
   Biochemistry and Molecular Biology
   Biochemistry/Biotechnology
   Biological Science—Interdepartmental
   Biomedical Laboratory Science
   Chemical Physics
   Chemistry
   Computational Chemistry
   Computational Mathematics
   Earth Science—Interdepartmental
   Environmental Biology/Microbiology
   Environmental Biology/Plant Biology
   Environmental Biology/Zoology
   Environmental Geosciences
   Genomics and Molecular Genetics
   Geological Sciences
   Human Biology
   Mathematics
   Mathematics, Advanced
   Microbiology
   Neuroscience
   Nutritional Sciences
   Physical Science—Interdepartmental
   Physics
   Physiology
   Plant Biology
   Statistics
   Zoology

Majors

1. Biology ............................................. 41

   a. A minimum of 41 credits from the courses listed below including:

      (1) Organic Chemistry (8 credits):

         CEM 251 Organic Chemistry I ........................ 3
         CEM 252 Organic Chemistry II ....................... 3

      (2) Biochemistry (4 to 6 credits):

         One of the following, either (a) or (b):

         (a) BMB 401 Comprehensive Biochemistry .......... 4
         (b) BMB 461 Advanced Biochemistry I ............... 3
         BMB 462 Advanced Biochemistry II .................. 3

      (3) Advanced Experimental Biology (6 credits):

         The following course:

         LB 348 Research Experiences in Biology ........... 3

         At least 3 credits from the following:

         LB 49B Advanced Directed Study – Biology ...... 1 to 4
         LB 493 Field Experience ............................. 1 to 4
         LB 494 Undergraduate Research ..................... 1 to 4

         Other courses as approved by advisor.

      (4) Integrative Biology (16 credits):

         All of the following courses:

         IBIO 341 Fundamental Genetics ........................ 4
         IBIO 355 Ecology ....................................... 3
         IBIO 445 Evolution (W) ................................ 3
         MMG 301 Introductory Microbiology ................ 3
         MMG 409 Eukaryotic Cell Biology .................... 3

      (5) Organismal Diversity (3 or 4 credits):

         One of the following courses:

         ENT 404 Fundamentals of Entomology ............... 3
         ENT 422 Aquatic Entomology ........................ 3
         ENT 470 General Nematology .......................... 3
         FW 471 Ichthyology .................................... 4
         IBIO 306 Invertebrate Biology ........................ 4
         IBIO 328 Comparative Anatomy and Biology of Vertebrates (W) ........................................ 4
         IBIO 360 Biology of Birds ................................ 4
         IBIO 365 Biology of Mammals .......................... 4
         IBIO 384 Biology of Amphibians and Reptiles (W) .... 4
         PLB 402 Biology of Fungi .............................. 4
         PLB 418 Plant Systematics ............................ 3
         PLB 424 Algal Biology .................................. 4

         Other courses as approved by advisor.

      (6) Ecology, Evolution, and Behavioral Biology (3 or 4 credits):

         One of the following courses:

         IBIO 489 Evolutionary Development (W) ............ 3
         IBIO 491 Behavioral Biology .......................... 4
         IBIO 495 Evolutionary Ecology ........................ 4
         IBIO 496 Behavioral Ecology .......................... 4
         PLB 420 Evolution and Behavior (W) .................. 3
         PLB 423 Population Ecology .......................... 3
         PLB 426 Ecological Genetics ........................... 3

         Other courses as approved by advisor.
### 2. Computer Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CSE 231</td>
<td>Introduction to Programming I</td>
<td>3</td>
</tr>
<tr>
<td>CSE 260</td>
<td>Discrete Structures in Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>CSE 320</td>
<td>Computer Organization and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>CSE 330</td>
<td>Algorithms and Data Structures</td>
<td>3</td>
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<tr>
<td>CSE 410</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSE 460</td>
<td>Computer and Formal Language Theory</td>
<td>3</td>
</tr>
<tr>
<td>LB 220</td>
<td>Calculus III</td>
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<tr>
<td>CSE 420</td>
<td>Computer Architecture</td>
<td>3</td>
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<tr>
<td>CSE 422</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>CSE 435</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CSE 440</td>
<td>Introduction to Artificial Intelligence</td>
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<tr>
<td>CSE 450</td>
<td>Translation of Programming Languages</td>
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<tr>
<td>CSE 452</td>
<td>Organization of Programming Languages</td>
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<td>CSE 480</td>
<td>Database Systems</td>
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### 3. Earth Science

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<tr>
<td>GLG 201</td>
<td>The Dynamic Earth</td>
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<tr>
<td>GLG 321</td>
<td>Mineralogy and Geochemistry</td>
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</tr>
<tr>
<td>GLG 351</td>
<td>Structural Geology and Tectonics</td>
<td>4</td>
</tr>
<tr>
<td>GLG 361</td>
<td>Petrology (W)</td>
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<td>GLG 401</td>
<td>Plate Tectonics (W)</td>
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</tr>
<tr>
<td>GLG 481</td>
<td>Reservoirs and Aquifers</td>
<td>3</td>
</tr>
<tr>
<td>GLG 491</td>
<td>Field Geology – Summer Camp (W)</td>
<td>6</td>
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<tr>
<td>GLG 431</td>
<td>Sedimentology and Stratigraphy</td>
<td>4</td>
</tr>
<tr>
<td>GLG 433</td>
<td>Vertebrate Paleontology</td>
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<td>GLG 434</td>
<td>Evolutionary Paleontology</td>
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<tr>
<td>PLB 335</td>
<td>Plants Through Time</td>
<td>3</td>
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<tr>
<td>GEO 203</td>
<td>Introduction to Meteorology</td>
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<tr>
<td>GEO 401</td>
<td>Geography of Plants of North America</td>
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<td>GEO 402</td>
<td>Agricultural Climatology</td>
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<tr>
<td>GEO 405</td>
<td>Weather Analysis and Forecasting</td>
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<tr>
<td>GEO 421</td>
<td>Environmental Geochemistry</td>
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<td>CSS 470</td>
<td>Soil Resources</td>
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<tr>
<td>GEO 407</td>
<td>Regional Geography of the United States</td>
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<tr>
<td>GEO 408</td>
<td>Soil Geomorphology Field Study</td>
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### 4. Environmental Sciences and Management

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<td>Wetland Ecology and Management</td>
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<td>FW 420</td>
<td>Stream Ecology</td>
<td>3</td>
</tr>
<tr>
<td>FW 431</td>
<td>Ecophysiology and Toxicology of Fishes</td>
<td>3</td>
</tr>
<tr>
<td>FW 439</td>
<td>Conservation Ethics</td>
<td>3</td>
</tr>
<tr>
<td>FW 444</td>
<td>Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>FW 463</td>
<td>Wildlife Disease Ecology</td>
<td>3</td>
</tr>
<tr>
<td>FW 472</td>
<td>Limnology</td>
<td>3</td>
</tr>
<tr>
<td>GLG 434</td>
<td>Evolutionary Paleontology</td>
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<tr>
<td>IBIO 303</td>
<td>Oceanography</td>
<td>4</td>
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<tr>
<td>IBIO 313</td>
<td>Animal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>IBIO 415</td>
<td>Ecological Aspects of Animal Behavior (W)</td>
<td>3</td>
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<tr>
<td>IBIO 440</td>
<td>Field Ecology and Evolution</td>
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<tr>
<td>MMG 425</td>
<td>Microbial Ecology</td>
<td>3</td>
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<td>PLB 441</td>
<td>Plant Ecology</td>
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<td>PLB 443</td>
<td>Restoration Ecology</td>
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<td>FW 420</td>
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<td>FW 431</td>
<td>Ecophysiology and Toxicology of Fishes</td>
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### 6. History, Philosophy and Sociology of Science

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<tr>
<td>EC 201</td>
<td>Introduction to Microeconomics</td>
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<tr>
<td>EC 425</td>
<td>Introduction to Philosophy</td>
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<td>EC 420</td>
<td>Introduction to Psychology</td>
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<td>EC 410</td>
<td>Operating Systems</td>
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<td>EC 460</td>
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<td>LB 220</td>
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<td>PLB 443</td>
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LYMAN BRIGGS COLLEGE
Undergraduate Program

Requirements for the Minor in Bioethics

1. Both of the following courses (3 credits):
   - LB 240 Biotechnology: Theories and Methods ........................................ 2
   - LB 440 Biotechnology Capstone ..................................................................... 1
2. Complete 15 credits from at least four courses. No more than 8 credits may be from the same discipline. Students should work with the advisor for appropriate substitution requests.
   - ANP 270 Women and Health: Anthropological and International Perspectives ................................................................. 3
   - ANP 370 Culture, Health, and Illness ............................................................. 3
   - ANP 423 Physiological Anthropology .......................................................... 3
   - ANP 425 Issues in Medical Anthropology ................................................... 3
   - ANP 471 The Anthropology of Alternative Medicine ..................................... 3
   - ANP 472 Environmental Toxicology and Society ......................................... 3
   - CEP 470 Disability in a Diverse Society ...................................................... 3
   - EC 498 Economics of Health Care (W) ...................................................... 3
   - ENG 473A Literature and Medicine ............................................................. 3
   - EPI 390 Disease in Society: An Introduction to Epidemiology and Public Health ................................................................. 4
   - GEO 435 Geography of Health and Disease ................................................ 3
   - HNF 375 Community Nutrition .................................................................... 3
   - HNF 406 Global Foods and Culture ............................................................ 3
   - HST 420 History of Sexuality since 18th Century ......................................... 3
   - HST 425 American and European Health Care since 1800 .......................... 4
   - LB 324A Science and Sex, Gender, Sexuality – Arts and Humanities (W) ........ 3
   - LB 324B Science and Sex, Gender, Sexuality – Social Sciences (W) .............. 4
   - LB 326A Medicine and Health – Arts and Humanities (W) ......................... 4
   - LB 326B Medicine and Health – Social Sciences (W) .................................... 4
   - LB 355 Philosophy of Technology (W) ........................................................ 4
   - MC 351 Science and Social Policy ............................................................... 4
   - PHL 344 Ethical Issues in Health Care ......................................................... 4
   - PHL 380 Nature of Science ......................................................................... 3
   - PHL 444 Philosophical Issues in Biomedicine .............................................. 4
   - PHL 480 Philosophy of Science .................................................................... 3
   - PHL 485 Philosophy of Social Science .......................................................... 3
   - PSY 280 Abnormal Psychology .................................................................... 3
   - PSY 320 Health Psychology ......................................................................... 3
   - REL 385 Religion, Health, and Healthcare .................................................. 3
   - SOC 368 Science, Technology, and Society .................................................. 3
   - SOC 451 Dynamics of Population ................................................................ 3
   - SOC 475 Health and Society ........................................................................ 3
   - SW 472 Social Work in Health Care ............................................................ 3
   - WS 304 Social and Personal Relationships (LBGTQ) and Sexuality Studies .... 3

MINOR IN HISTORY, PHILOSOPHY AND SOCIOLOGY OF SCIENCE

The Minor in History, Philosophy and Sociology of Science, which is administered by Lyman Briggs College, is designed to increase students' understanding of the epistemological foundations and ethical elements of science while learning more of the history of some areas of science and appreciating the complex ways that science is connected to other social institutions and practices.

The minor is available as an elective to students who are enrolled in a bachelor's degree program in Lyman Briggs College at Michigan State University. Students majoring in History, Philosophy and Sociology of Science in Lyman Briggs College are not eligible for the minor. With the approval of the college, the courses are used to satisfy the minor may also be used to satisfy the requirements for the bachelor's degree.

Students who plan to complete the requirements for the minor should consult an undergraduate advisor in Lyman Briggs College.

Requirements for the Minor in History, Philosophy and Sociology of Science

Complete 15 to 16 credits from the following:

1. Two of the following courses (8 credits):
   - LB 330 Topics in History, Philosophy, and Sociology of Science (W) ........ 4
   - LB 331 Literature and Science (W) .............................................................. 4
   - LB 332 Technology and Culture (W) ........................................................... 4
   - LB 333 Topics in History of Science (W) ..................................................... 4
   - LB 334 Science, Technology, and Public Policy (W) .................................... 4
   - LB 335 The Natural Environment: Perceptions and Practices (W) ............ 4

2. Two of the following courses (7 or 8 credits):
   - ENG 473A Literature and Medicine ............................................................. 3
   - ESA 430 Environmental and Natural Resource Law ................................... 3
   - ESA 440 Environmental and Natural Resource Policy in Michigan .......... 3
   - GEO 435 Geography of Health and Disease .............................................. 3
   - HST 416 History of the Atomic Bomb and Nuclear Culture ....................... 3
   - HST 420 History of Sexuality since 18th Century ....................................... 3
   - HST 425 American and European Health Care since 1800 ....................... 4
   - HRT 486 Biotechnology in Agriculture: Applications and Ethical Issues .... 3
   - LB 330 Topics in History, Philosophy, and Sociology of Science (W) ........ 4
   - LB 331 Literature and Science (W) .............................................................. 4
   - LB 332 Technology and Culture (W) ........................................................... 4
   - LB 333 Topics in History of Science (W) ..................................................... 4
   - LB 334 Science, Technology, and Public Policy (W) .................................... 4
   - LB 335 The Natural Environment: Perceptions and Practices (W) ............ 4
   - LB 336 Gender, Sexuality, Science, Technology (W) .................................. 4
   - LB 355 Philosophy of Technology (W) ........................................................ 4
   - LB 490E Advanced Directed Study in History, Philosophy, and Sociology of Science (W) .................................................. 4
   - MC 350 Evolution and Society .................................................................... 4
   - MC 351 Science and Social Policy ............................................................... 4
   - MC 459 Science, Technology, Environment and Public Policy Capstone (N) .... 3
   - PHL 380 Nature of Science ......................................................................... 3
   - PHL 462 Philosophy of Mind ....................................................................... 3
   - PHL 480 Philosophy of Science .................................................................... 4
   - PHL 485 Philosophy of Social Science .......................................................... 3
   - PHL 488 Philosophy of Biological Science .................................................. 3
   - PHL 489 Philosophy of Social Science .......................................................... 3
   - SOC 368 Science, Technology, and Society .................................................. 3
   - SOC 452 Environment and Society ............................................................. 3
   - SOC 453 Internship in Environment and Society ........................................ 1
   - SOC 475 Sociology of Health Care Systems ............................................. 3
   - SOC 476 Social Psychology of Health ........................................................ 3
   - ZOL 446 Environmental Issues and Public Policy ....................................... 3

Courses used to fulfill requirement 1 above may not be used to fulfill this requirement. Other courses may be used in fulfillment of this requirement with the approval of the student's academic advisor.

LYMAN BRIGGS COLLEGE 3 + 4 OPTION

Lyman Briggs College, in collaboration with the MSU College of Osteopathic Medicine, offers an opportunity for selected Lyman Briggs College students to earn a baccalaureate degree after satisfactory completion of a minimum of 90 credits at Michigan State University and a minimum of 30 credits through subsequent enrollment at the Michigan State University College of Osteopathic Medicine. Only students who matriculate as first-year students at Lyman Briggs College may pursue this option. Students interested in this option should consult with their college academic advisor during their first year in college.

Admission to the MSU College of Osteopathic Medicine component of this program is limited to a small number of students who complete the specified university and college requirements and who fulfill admission requirements for the MSU College of Osteopathic Medicine Doctor of Osteopathic Medicine program. All students in this program will complete a minimum of 90 credits at Michigan State University in the Lyman Briggs College Biology major. The requirements for the program are as follows:

1. Completion of all the Michigan State University graduation requirements, including integrative studies and general education.
2. Completion of the Lyman Briggs College graduation requirements including mathematics, chemistry, biology, physics, and history, philosophy and sociology of science.
3. Be pursuing the curriculum for the Lyman Briggs College Biology major.
4. Completion of a minimum of 30 credits at the MSU College of Osteopathic Medicine in the preclerkship component of the Doctor of Osteopathic Medicine degree program.

Upon satisfactory completion of the specified 120 credits, students in this program will be eligible for the Bachelor of Science degree in Lyman Briggs College with a major in Biology.