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 Student Success and Advising Office to discuss with a recruiter. Space in Lyman Briggs College is limited.

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.

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

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

   a. CORE PROGRAM

      (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, 162, 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.

      (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.
LYMAN BRIGGS COLLEGE

(c) Mathematics 132, 133.
(d) Physics 191, 192, 193H, 294H.
(e) Physics 183B, 184B, 191, 192.
(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, 322, 323A, 324, 325A, 326B, 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 chosen from the lists of options below. Both the Major or Coordinate Major and the related courses 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
Forestry

(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
Biology/Biotechnology
Biological Science—Secondary Education
Biomedical Laboratory Science
Chemical Physics
Chemistry
Computational Chemistry
Computational Mathematics
Data Science
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
Nitritional Sciences
Physical Science—Secondary Education
Physics
Physiology
Plant Biology
Statistics
Zoology

Majors

Explicit:

1. Biology

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

   (1) Organic Chemistry (6 credits):
      Both of the following courses:
      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

   (3) Advanced Experimental Biology (6 credits):
      The following course:
      LB 490B Advanced Directed Study – Biology 1 to 4

   (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 to 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:
      CSS 442 Agricultural Ecology 3
      FW 417 Wetland Ecology and Management 3
      FW 420 Stream Ecology 3
      FW 431 Ecophysiology and Toxicology of Fishes 3
      FW 439 Conservation Ethics 3
      FW 444 Conservation Biology 3
      FW 463 Wildlife Disease Ecology 3
      FW 472 Limnology 3
      GLG 434 Evolutionary Paleobiology 4
      IBIO 303 Oceanography 4
      IBIO 313 Animal Behavior 3
      IBIO 415 Ecological Aspects of Animal Behavior (W) 3
      IBIO 440 Field Ecology and Evolution 4
      MMG 425 Microbial Ecology 3
      PLB 441 Plant Ecology 3
      PLB 443 Restoration Ecology 3

      Other courses as approved by advisor.

   (7) Cellular and Molecular Biology (3 or 4 credits):
      One of the following courses:
      FSC 440 Food Microbiology 3
      IBIO 320 Developmental Biology 4
      IBIO 408 Histology 4
      IBIO 425 Cells and Development (W) 4
      MMG 404 Human Genetics 3
      MMG 413 Virology 3
      MMG 421 Prokaryotic Cell Physiology 3
      MMG 425 Microbial Ecology 3
      MMG 431 Microbial Genetics 3
      MMG 433 Microbial Genomics 3
      MMG 445 Microbial Biotechnology (W) 3
      MMG 451 Immunology 3
      MMG 461 Molecular Pathogenesis 3
      MMG 463 Medical Microbiology 3
      PSL 310 Physiology for Pre-Health Professionals 4
      PSL 431 Human Physiology I 4

      Other courses as approved by advisor.

Implicit:

1. Biochemistry (4 to 6 credits):
   - One of the following courses:
     (a) BMB 401 Comprehensive Biochemistry 4
     (b) BMB 461 Advanced Biochemistry I 3

2. Advanced Experimental Biology (6 credits):
   - The following courses:
     LB 490B Advanced Directed Study – Biology 1 to 4

3. Organismal Diversity (3 to 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.

4. Ecology, Evolution, and Behavioral Biology (3 or 4 credits):
   - One of the following courses:
     CSS 442 Agricultural Ecology 3
     FW 417 Wetland Ecology and Management 3
     FW 420 Stream Ecology 3
     FW 431 Ecophysiology and Toxicology of Fishes 3
     FW 439 Conservation Ethics 3
     FW 444 Conservation Biology 3
     FW 463 Wildlife Disease Ecology 3
     FW 472 Limnology 3
     GLG 434 Evolutionary Paleobiology 4
     IBIO 303 Oceanography 4
     IBIO 313 Animal Behavior 3
     IBIO 415 Ecological Aspects of Animal Behavior (W) 3
     IBIO 440 Field Ecology and Evolution 4
     MMG 425 Microbial Ecology 3
     PLB 441 Plant Ecology 3
     PLB 443 Restoration Ecology 3

   - Other courses as approved by advisor.

5. Cellular and Molecular Biology (3 or 4 credits):
   - One of the following courses:
     FSC 440 Food Microbiology 3
     IBIO 320 Developmental Biology 4
     IBIO 408 Histology 4
     IBIO 425 Cells and Development (W) 4
     MMG 404 Human Genetics 3
     MMG 413 Virology 3
     MMG 421 Prokaryotic Cell Physiology 3
     MMG 425 Microbial Ecology 3
     MMG 431 Microbial Genetics 3
     MMG 433 Microbial Genomics 3
     MMG 445 Microbial Biotechnology (W) 3
     MMG 451 Immunology 3
     MMG 461 Molecular Pathogenesis 3
     MMG 463 Medical Microbiology 3
     PSL 310 Physiology for Pre-Health Professionals 4
     PSL 431 Human Physiology I 4

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

- A minimum of 37 credits from the courses listed below including:
  - All of the following courses (28 credits):
    - CSE 231 Introduction to Programming I
    - CSE 232 Introduction to Programming II
    - CSE 260 Discrete Structures in Computer Science
    - CSE 320 Computer Organization and Architecture
    - CSE 325 Computer System
    - CSE 331 Algorithms and Data Structures
    - CSE 33S Object-oriented Software Design
    - MTH 314 Matrix Algebra with Computational Applications
  - (2) Computer Science Electives
    - Complete one of the following concentrations (9 credits):
      - (a) Systems - Three of the following courses:
        - CSE 410 Operating Systems
        - CSE 415 Introduction to Parallel Computing
        - CSE 422 Computer Networks
        - CSE 450 Translation Programming Languages
        - CSE 480 Database Systems
      - (b) Intelligent Systems - Three of the following courses:
        - CSE 402 Biometrics and Pattern Recognition
        - CSE 404 Introduction to Machine Learning
        - CSE 440 Introduction to Artificial Intelligence
        - CSE 482 Big Data Analysis
      - (c) Media - Three of the following courses:
        - CSE 471 Media Processing and Multimedia Computing
        - CSE 472 Computer Graphics
        - CSE 476 Mobile Application Development
        - CSE 477 Web Application Architecture and Development
  - (3) Ethics Requirement - One of the following courses:
    - LB 322A Advances in Science and Technology
      - Arts and Humanities (W)
    - LB 322B Advances in Science and Technology
      - Social Sciences (W)
    - The completion of LB 322A or LB 322B satisfies the ethics requirement for the major, but cannot be counted toward the Lyman Briggs College requirement.

3. Earth Science

- A minimum of 27 credits from the courses listed below including:
  - (1) At least 14 credits in courses at the 300–400 level.
  - (2) At least 8 credits in earth science courses outside the Department of Earth and Environmental Sciences.
  - (4) At least one course in each of the following 5 earth science areas (15 to 22 credits):
    - (a) Astronomy and Astrophysics
    - (b) Geology of the Solid Earth
      - GLG 201 The Dynamic Earth
      - GLG 321 Mineralogy and Geochemistry
      - GLG 351 Structural Geology and Tectonics
      - GLG 361 Petrology (W)
      - GLG 401 Plate Tectonics (W)
      - GLG 481 Reservoirs and Aquifers
      - GLG 491 Field Geology – Summer Camp (W)
    - (c) Paleobiology
      - GLG 431 Sedimentology and Stratigraphy (W)
      - GLG 433 Vertebrate Paleontology
      - GLG 434 Evolutionary Paleobiology
      - PLB 335 Plants Through Time
    - (d) Environmental Geosciences and Meteorology
      - GEO 203 Introduction to Meteorology
      - GEO 401 Geography of Plants of North America
      - GEO 402 Agricultural Climatology
      - GEO 405 Weather Analysis and Forecasting
      - GLG 421 Environmental Geochemistry
    - (e) Geomorphology
      - CSS 470 Soil Resources
      - GEO 407 Regional Geomorphology of the United States
      - GEO 408 Soil Geomorphology Field Study

4. Environmental Sciences and Management

- A minimum of 41 credits from the courses listed below including:
  - One of the following groups of courses (8 or 10 credits):
    - (a) LB 118 Calculus I
    - STT 231 Statistics for Scientists
    - MTH 132 Calculus (W)
    - MTH 133 Calculus II
    - STT 231 Statistics for Scientists
    - (2) One course from each of the following 7 areas (24 to 26 credits):
      - (a) Ecology:
        - ZOL 355 Ecology
        - ZOL 355L Ecology Laboratory
      - (b) Geology:
        - GLG 201 The Dynamic Earth
      - (c) Taxonomy or Phylogenetic Biology:
        - ENT 404 Fundamentals of Entomology
        - PLB 418 Plant Systematics
        - ZOL 306 Invertebrate Biology
      - (d) Biochemistry:
        - BMB 401 Basic Biochemistry
      - (e) Aquatic Systems:
        - FW 420 Stream Ecology
      - (f) Microbiology:
        - MMG 301 Introductory Microbiology
      - (g) Economics:
        - EC 201 Introduction to Microeconomics
    - (3) One course from each of the following three groups (9 to 11 credits):
      - (a) FOR 464 Forest Resources Economics (W)
      - SOC 452 Environment and Society
      - FW 444 Conservation Biology
      - (b) FW 410 Upland Ecosystem Management
      - FW 417 Wetland Ecology and Management
      - Students who elect Sociology 452 must also complete Sociology 452L to meet requirement 4. a. (3) (a).

5. Physical Science

- A minimum of 31 credits from the courses listed below including:
  - (1) The following course:
    - LB 220 Calculus III
  - (2) At least 27 credits in chemistry courses, in physics courses, or in chemistry and physics courses approved by the student's academic advisor. At least 20 of the 27 credits must be in courses at the 300 level or above, and at least 14 of the 27 credits must be in either chemistry courses or physics courses and must meet the conditions specified below:
    - For students who elect to complete at least 14 credits in chemistry or physics courses, at least 6 of the 14 credits must be laboratory courses at the 300–400 level.
    - For students who elect to complete at least 14 credits in physics courses, at least 6 of the 14 credits must be in modern AST 207 The Science of Astronomy, and at least 3 of the 14 credits must be laboratory credits.

6. History, Philosophy and Sociology of Science

- A minimum of 24 credits in 300–400 level courses chosen from the following with History, Philosophy, and Sociology of Science content approved by the student's HPS academic advisor. Courses used to fulfill the Lyman Briggs College graduation requirements and LB 492 may not be used to fulfill these requirements. A minimum of four courses from Lyman Briggs must be selected.
  - Additional courses outside of Lyman Briggs may be used with advisor approval.
- CSUS 310 History of Environmental Thought and Sustainability
- CSUS 463 Food Fight: Politics of Food
- CSUS 464 Environmental and Natural Resource Policy in Michigan
- ENG 473A Literature and Medicine
- FW 439 Conservation Ethics
- GEO 435 Geography of Health and Disease
- HST 420 History of Sexuality since the 18th Century
- HST 425 American and European Health Care since 1800
- HRT 486 Biotechnology in Agriculture: Applications and Ethical Issues
- IBIO 446 Environmental Issues and Public Policy
- LB 304 Lesbian, Gay, Bisexual, Transgender, Queer (LGBTQ) and Sexuality Studies
- LB 321A Science and the Public- Arts and Humanities (W)
- LB 321B Science and the Public- Social Sciences (W)
- LB 322A Advances in Science and Technology- Arts and Humanities (W)
- LB 322B Advances in Science and Technology- Social Sciences (W)
- LB 323A Science in a Global Context- Arts and Humanities (W)
- LB 323B Science in a Global Context- Social Sciences (W)
LYMAN BRIGGS COLLEGE

MINOR IN BIOETHICS

The Minor in Bioethics, which is administered by Lyman Briggs College, is available as an elective to students who are enrolled in bachelor’s degree programs at Michigan State University. The minor is designed to prepare students to engage with the evolving set of ethical issues in biomedicine that they will encounter in their careers or their daily lives. The minor’s interdisciplinary character fosters students’ abilities to understand and question health care systems from a wide variety of intellectual viewpoints. Such interdisciplinary study also promotes communication across disciplinary boundaries.

Students wishing to pursue careers in health-related fields may find the minor particularly appealing. In addition, students pursuing academic programs outside health-related fields often find that the minor complements their major. With the approval of the department and college that administer the student’s degree program, the courses that are used to satisfy the requirements for the minor may also be used to satisfy the requirements for the bachelor’s degree.

Requirements for the Minor in Bioethics

<table>
<thead>
<tr>
<th>CREDITS</th>
<th>REQUIRED COURSES</th>
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<tbody>
<tr>
<td>1. Both of the following courses (3 credits):</td>
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<tr>
<td>LB 324B Science and Sex, Gender, Sexuality-Social Sciences (W)</td>
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<td>LB 325A Science and the Environment-Arts and Humanities (W)</td>
<td>4</td>
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<tr>
<td>LB 325B Science and the Environment-Social Sciences (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 326A Medicine and Health-Arts and Humanities (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 326B Medicine and Health-Social Sciences (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 327A Scientific Practice-Arts and Humanities (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 327B Scientific Practice-Social Sciences (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 490E Advanced Direct Study-History, Philosophy, Sociology of Science (W)</td>
<td>1 to 4</td>
</tr>
<tr>
<td>MC 351 Science and Social Policy</td>
<td>3</td>
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<tr>
<td>PHL 360 Nature of Science</td>
<td>3</td>
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<tr>
<td>PHL 402 Philosophy of Mind</td>
<td>3</td>
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<tr>
<td>PHL 490 Philosophy of Science</td>
<td>3</td>
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<tr>
<td>SOC 368 Science, Technology, and Society</td>
<td>4</td>
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<tr>
<td>SOC 452 Advanced Seminar in Environmental Sociology</td>
<td>3</td>
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<tr>
<td>SOC 475 Health and Society</td>
<td>3</td>
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<tr>
<td>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.</td>
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<tr>
<td>ANP 270 Women and Health: Anthropological and International Perspectives</td>
<td>3</td>
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<tr>
<td>ANP 370 Culture, Health, and Illness</td>
<td>3</td>
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<tr>
<td>ANP 423 Psychological Anthropology</td>
<td>3</td>
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<td>ANP 425 Issues in Medical Anthropology</td>
<td>3</td>
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<tr>
<td>ANP 471 The Anthropology of Alternative Medicine</td>
<td>3</td>
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<tr>
<td>ANS 427 Environmental Toxicology and Society</td>
<td>3</td>
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<tr>
<td>CEP 470 Disability in a Diverse Society</td>
<td>3</td>
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<tr>
<td>EC 498 Economics of Health Care (W)</td>
<td>3</td>
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<tr>
<td>ENG 473A Literature and Medicine</td>
<td>3</td>
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<tr>
<td>EPI 390 Disease in Society: An Introduction to Epidemiology and Public Health</td>
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<td>GEO 435 Geography of Health and Disease</td>
<td>3</td>
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<td>HNF 375 Community Nutrition</td>
<td>3</td>
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<td>HNF 406 Global Foods and Culture</td>
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<td>HST 420 History of Sexuality since 18th Century</td>
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<td>HST 425 American and European Health Care since 1800</td>
<td>4</td>
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<tr>
<td>KIN 445 Sport and Physical Activity in Society (W)</td>
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<tr>
<td>LB 324A Science and Sex, Gender, Sexuality – Arts and Humanities (W)</td>
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<tr>
<td>LB 324B Science and Sex, Gender, Sexuality – Social Sciences (W)</td>
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<tr>
<td>LB 326A Medicine and Health – Arts and Humanities (W)</td>
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<tr>
<td>LB 326B Medicine and Health – Social Sciences (W)</td>
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<td>LB 355 Philosophy of Technology (W)</td>
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<tr>
<td>MC 351 Science and Social Policy</td>
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<tr>
<td>PHL 344 Ethical Issues in Health Care</td>
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<tr>
<td>PHL 380 Nature of Science</td>
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<td>PHL 444 Philosophical Issues in Biomedicine</td>
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<td>PHL 480 Philosophy of Science</td>
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<tr>
<td>PHL 485 Philosophy of Social Science</td>
<td>3</td>
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<tr>
<td>PSY 280 Abnormal Psychology</td>
<td>3</td>
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<td>PSY 320 Health Psychology</td>
<td>3</td>
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<tr>
<td>REL 385 Religion, Health, and Healthcare</td>
<td>3</td>
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<tr>
<td>SOC 368 Science, Technology and Society</td>
<td>4</td>
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<tr>
<td>SOC 451 Dynamics of Population</td>
<td>3</td>
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<td>SOC 475 Health and Society</td>
<td>3</td>
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<tr>
<td>SW 472 Social Work in Health Care</td>
<td>3</td>
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<tr>
<td>WS 304 Lesbian, Gay, Bisexual, Transgender, Queer (LGBTQ) and Sexuality Studies</td>
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</tbody>
</table>

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 that 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

A minimum of 20 credits in 300–400 level courses chosen from the following with History, Philosophy, and Sociology of Science content approved by the student’s HPS academic advisor. A minimum of three courses from Lyman Briggs must be selected. Additional courses outside of Lyman Briggs may be used with advisor approval.

<table>
<thead>
<tr>
<th>CREDITS</th>
<th>REQUIRED COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB 321A Science and the Public- Arts and Humanities (W)</td>
<td>4</td>
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<tr>
<td>LB 321B Science and the Public- Social Sciences (W)</td>
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<tr>
<td>LB 322A Advances in Science and Technology- Arts and Humanities (W)</td>
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<tr>
<td>LB 322B Advances in Science and Technology- Social Sciences (W)</td>
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<tr>
<td>LB 323A Science in a Global Context- Arts and Humanities (W)</td>
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<td>LB 323B Science in a Global Context- Social Sciences (W)</td>
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<tr>
<td>LB 324A Science and Sex, Gender, Sexuality- Arts and Humanities (W)</td>
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<td>LB 324B Science and Sex, Gender, Sexuality- Social Sciences (W)</td>
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<tr>
<td>LB 325A Science and the Environment- Arts and Humanities (W)</td>
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<tr>
<td>LB 325B Science and the Environment- Social Sciences (W)</td>
<td>4</td>
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<tr>
<td>LB 326A Medicine and Health- Arts and Humanities (W)</td>
<td>4</td>
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<tr>
<td>LB 326B Medicine and Health- Social Sciences (W)</td>
<td>4</td>
</tr>
<tr>
<td>LB 327A Scientific Practice- Arts and Humanities (W)</td>
<td>4</td>
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<tr>
<td>LB 327B Scientific Practice- Social Sciences (W)</td>
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<tr>
<td>LB 490E Advanced Direct Study-History, Philosophy, Sociology of Science (W)</td>
<td>1 to 4</td>
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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 must be admissible to MSU and accepted into the Osteopathic Medical Scholars Program (OMSP).

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.