

The College of Arts and Science

Arts and Science and University Studies Advising Office

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General Information

The College of Arts and Science is the centerpiece of liberal arts education at Miami University and the largest academic division on campus. As such, the College encompasses a rich diversity of disciplinary opportunities and experiences across the humanities, natural sciences, social sciences, languages, mathematics, and interdisciplinary programs.

Using this broad foundation, an Arts and Science education is devoted to intellectual analysis, critical thinking, and honing transferable skills that will be used for a student's entire lifetime. Employers demand a smart, globally minded workforce that can creatively solve problems while drawing upon a broad and adaptable skill set, and the College prepares its students for a vast array of career opportunities.

The College offers three degrees: the Bachelor of Arts, the Bachelor of Arts in International Studies, and the Bachelor of Science

Accreditation

Departments in the College that are accredited by professional associations are:

Department of Chemistry and Biochemistry: American Chemical Society

Department of Chemistry and Biochemistry: Chemistry and Biochemistry by the American Society of Biochemistry & Molecular Biology (ASBMB)

Department of Psychology: American Psychological Association

Department of Speech Pathology and Audiology (graduate program only) by the Council of Academic Accreditation in Audiology and Speech-Language Pathology

General Requirements

These are the general requirements of the College of Arts and Science for graduation:

- Earn at least 124 semester hours, 56 must be advanced (at 200 level and above).
- Fulfill the Global Miami Plan (MP), the College Requirement (CAS), and the requirements of your major.
- Earn a 2.00 cumulative grade point average, as well as a 2.00 average in all courses taken in your department(s) of major.

If you are a transfer student, you must take a substantial portion of your major requirements at Miami. You will work with an Arts and Science divisional academic advisor at the time of transfer to help facilitate your transition.

Notes on Credit Restrictions

Before registering for your courses, you should keep in mind these restrictions on credit:

- You may not earn credit for a lower-numbered course in a department if you have already taken a closely related, higher-numbered course for credit. For example, if you have passed FRE 201, FRE 202, you cannot take FRE 101, FRE 102 and receive credit for them.
- When taking a series of courses, you may not jump over a prerequisite course. For example: if you start a foreign language and take the 101 and 102 courses, you cannot jump over the 201 course to take the 202 course; be sure to consult the courses of instruction portion of this bulletin to look at the prerequisites for courses you are thinking of taking.
- Credit is not given for closely related courses in two or more divisions; be sure to consult the courses of instruction portion of this bulletin to see if courses are duplicative credit.
- You cannot register for more than 20 hours in a semester except with the approval of the Dean or his/her designee.

Bachelor of Arts

- American Studies
- Anthropology
- Biochemistry
- Biology
- Botany
- Chemistry
- Classical Humanities
- Classical Languages
- Critical Race and Ethnic Studies
- Diplomacy and Global Politics
- East Asian Languages & Cultures
- Economics
- English:Creative Writing
- English:Literature
- Environmental Earth Science
- French
- Geography and Sustainable Development
- Geology
- German
- Gerontology
- History
- Individualized Studies
- Italian Studies
- Journalism (requires a second major)
- Latin American, Latino/a and Caribbean Studies
- Linguistics
- Mathematics
- Media and Culture (requires a second major)
- Microbiology
- Philosophy
- Physics
- Political Science

- Professional Writing
- Psychology
- Public Administration
- Public Health
- Religion
- Russian, East European, & Eurasian Studies
- Social Justice Studies
- Sociology
- Spanish
- Strategic Communication (requires a second major)
- Urban and Regional Planning
- Women's, Gender, and Sexuality Studies
- Zoology

Bachelor of Arts in International Studies

- International Studies

Bachelor of Science

- Biochemistry
- Biological Physics
- Biology
- Botany
- Chemistry
- Data Science and Statistics
- Engineering Physics
- Geology
- Mathematics
- Mathematics and Statistics
- Medical Laboratory Science
- Microbiology
- Physics
- Quantitative Economics
- Speech Pathology and Audiology
- Zoology

Co-majors

Co-Majors are designed to provide a complementary perspective to a student's primary major. There is no specific degree designation for the co-major, students receive the degree designation of their primary major.

- Analytics
- Comparative Media Studies
- Critical and Classical Languages and Cultures
- Energy
- Environmental Science
- Film Studies
- Food Systems and Food Studies
- Global and Intercultural Studies
- Neuroscience
- Premedical Studies
- Sustainability

Minors

In addition to majors, the College of Arts and Science offers minors. A minor is a specific program to be taken along with a major to complement your skills and increase your career opportunities. Taking a minor is optional.

You must have a 2.00 grade point average (GPA) for all courses in a minor. Some minor programs may require a higher GPA. Additional requirements and qualifications are included in the Other Requirements chapter. Students may use a minor to satisfy the Thematic Sequence requirement only if the minor is outside the department of major.

- Actuarial Science
- Aerospace Studies
- American Studies
- Anthropology
- Arabic
- Archaeology
- Bioinformatics
- Chinese
- Classical Humanities
- Creative Writing
- Criminology
- Critical Race and Ethnic Studies
- East Asian Studies
- Economics
- English Literature
- Ethics, Society, and Culture
- European Studies
- Film Studies
- French
- Geography
- Geology
- German
- Gerontology
- Global Health
- Global Perspectives on Sustainability
- History
- Horticulture
- Individualized Studies
- Italian
- Japanese
- Latin American Latino/a Caribbean Studies
- Linguistics
- Lusophone Studies
- Mathematics
- Medical Humanities
- Middle East, Jewish, and Islamic Studies
- Molecular Biology
- Naval Science
- Neuroscience
- Philosophy and Law
- Physics

- Plant Sciences
- Political Science
- Religion
- Rhetoric/Writing
- Russian
- Social Justice and Inequalities
- Sociology
- Spanish
- Statistical Methods
- Statistics
- Urban and Regional Analysis
- Women's, Gender, and Sexuality Studies

Certificates

A certificate is a formal award certifying the satisfactory completion of an organized program of study at the postsecondary level. The purpose of a certificate program is to serve the needs of both matriculated and non-degree students interested in developing specific skills and knowledge for personal and/or professional development.

- GIS Certificate
- Global Readiness Certificate

Area of Major

In order for you to understand these areas and how they pertain to the College requirement, we list below all majors in Arts and Science and which area the major is in:

Humanities

American Studies
 Classical Humanities
 Classical Languages
 Critical Race and Ethnic Studies
 East Asian Languages and Cultures
 English (all major programs)
 French
 German
 History
 International Studies
 Italian Studies
 Latin American, Latino/and Caribbean Studies
 Linguistics
 Philosophy
 Religion
 Russian, East European, and Eurasian Studies
 Spanish

Social Science

Anthropology
 Diplomacy and Global Politics
 Economics
 Geography and Sustainable Development
 Gerontology
 Journalism
 Media and Culture
 Political science
 Psychology

Public Administration
 Public Health - Health Administration & Policy
 Quantitative Economics
 Social Justice Studies
 Sociology
 Speech Pathology and Audiology
 Strategic Communication
 Urban and Regional Planning
 Women's, Gender and Sexuality Studies

Natural Science & Mathematics

Biochemistry
 Biology
 Biological Physics
 Botany
 Chemistry
 Data Science and Statistics
 Engineering Physics
 Environmental Earth Science
 Geology
 Mathematics
 Mathematics and Statistics
 Medical Laboratory Science
 Microbiology
 Physics
 Public Health - Human Diseases & Epidemiology
 Zoology

Interdisciplinary Programs

The College of Arts and Science offers a range of interdisciplinary programs including specialized degrees, major, minors, and co-majors. These interdisciplinary programs allow students to consider a topic, subject, or problem from differing perspectives and to explore connections between those academic disciplines. Students pursuing these programs work closely with professors and advisors to select courses from across the curriculum that will provide opportunities to identify the intersections between multiple disciplines.

The College of Arts and Science offers interdisciplinary programs in the following areas:

Majors

American Studies
 Critical Race and Ethnic Studies
 Individualized Studies
 International Studies
 Italian Studies
 Journalism
 Linguistics
 Latin American Latino/a and Caribbean Studies
 Women's, Gender, and Sexuality Studies

Co-Majors

Analytics
 Comparative Media Studies
 Critical and Classical Languages and Cultures
 Energy
 Environmental Science
 Film Studies
 Food Systems and Food Studies

Global and Intercultural Studies
Neuroscience
Premedical Studies
Sustainability

Minors

American Studies
Bioinformatics
Critical Race and Ethnic Studies
East Asian Studies
Ethics, Society and Culture
European Studies
Film Studies
Global Perspectives on Sustainability
Interdisciplinary Studies
Latin American Latino/a Caribbean Studies
Linguistics
Middle East, Jewish, and Islamic Studies
Molecular Biology
Neuroscience
Women's, Gender, and Sexuality Studies

Departmental Honors

The College of Arts and Science offers a program in departmental honors for students who qualify for and desire independent work in a major field of study under the guidance of a faculty mentor(s). Students who successfully complete such an effort graduate with a departmental honors notation on their transcripts and under their names in the commencement program.

To qualify for entrance into the departmental honors program, you must be a senior, a major in the College of Arts and Science, and have a grade point average of at least 3.50 in the major in which departmental honors work is desired. You must meet specific requirements of the department or academic program in which honors work is to be done; you must consult with the appropriate department or program director about specific requirements.

Qualifying students register for a 480 course (include department abbreviation; for example, BIO 480): departmental honors (1-6, maximum 6) for a minimum total of 4 semester hours and a maximum total of 6 semester hours. These credits may be taken in one or more semesters of your senior year. The approval of the department chair or program director and the faculty mentor of your honors work is required to register for this course.

Expectations are rigorous and demanding, but the nature of projects varies. Projects might involve independent readings, creative efforts, internships, or research, based in the laboratory, field, or library. The project must result in a tangible product, such as an examination, written report, paper or monograph, oral presentation, work of art, or documentary.

Departmental honors in the College may be coordinated and integrated with work for Honors and Distinction in the University Honors Program. A common project may serve both departmental honors and university honors but separate and distinct presentations must be made to the department or program and to the University Honors Program for evaluation to earn both honors notations.

Medical Laboratory Science

Medical laboratory scientists apply scientific background and skills to supervision and performance of diagnostic procedures to determine presence or absence of disease and to monitor response to treatment.

Miami offers two baccalaureate degree programs that include a 12-month laboratory "clinical year." In the 3+1 program, you take three years at Miami followed by an internship to receive a B.S. in medical laboratory science. In the 4+1 program, you take four years at Miami to earn an A.B. or B.S. in biology, zoology, chemistry, or microbiology, and then you enter the clinical year.

After completing either program, you are eligible to take national registry examinations. Please understand that Miami cannot guarantee your acceptance into a clinical year site.

3+1 Program

This program requires 96 pre-clinical year semester hours at Miami, 32 in advanced courses. You take an interdepartmental sequence of courses in biology, chemistry, and microbiology. Specific requirements include: general microbiology, pathogenic microbiology, and immunology, a year of general chemistry and a year of organic chemistry (or organic chemistry and biochemistry), one year of general biology; a course in mathematics; competency in computer usage; and completion of a foreign language at second-year level.

During your junior year, you must file a petition in the dean's office of the College of Arts and Science to be graduated in this program. When you apply for a clinical year at a hospital, you must have a letter of intent from the Registrar of Miami University.

During your clinical year, you will be registered for MBI 487, MBI 488 and MBI 489 at Miami. These courses fulfill the Global Miami Plan Capstone Experience requirement. Clinical laboratory rotations and lecture series may include hematology, chemistry, bacteriology, immunology, virology, parasitology, and mycology along with electives such as laboratory management and forensics. After you complete your clinical year and certify this to the University Registrar's Office, you will be awarded the B.S. in medical laboratory science.

4+1 Program

For this program, you choose a major in biology, chemistry, or microbiology and fulfill all departmental, Arts and Science, and Miami Plan requirements for the baccalaureate degree. Pre-clinical year course requirements are: a year of general chemistry, a year of organic chemistry (or organic chemistry and biochemistry), a year of introductory biology, and one course in mathematics and general microbiology.

During fall semester of your senior year, you apply to enter a clinical year program at any hospital approved by the National Accrediting Agency for Medical Laboratory Sciences in the U.S.

Both 3+1 and 4+1 programs have affiliated training hospitals that include: The Cleveland Clinic; University of Cincinnati Hospital; St. Vincent Medical Center's Mercy Health Integrated Laboratories (Toledo, OH); Children's Hospital Medical Center (Akron, OH); St. Elizabeth Medical Center (Covington, KY); Parkview Memorial Hospital (Fort Wayne, IN); Franciscan St. Francis Health (Indianapolis, IN); Indiana University Health Methodist Hospital (Indianapolis, IN); New York Methodist Hospital (Brooklyn, NY); Vanderbilt University Medical

Center (Nashville, TN); Sentara Rockingham Memorial Hospital (Harrisonburg, VA); and Rhode Island Hospital (Providence, RI).

For more information about either program in medical laboratory science, see the program advisor in the Department of Microbiology.

Planning for Law School

Law school is a popular option for Arts and Science majors; 96% of Miami's 2014-2016 seniors were accepted into a program, compared to the national average of 86%.

Students interested in law school are encouraged to select a major that interests them. Regardless of the major you select, you should take courses that will enhance those skills that are necessary for success in law school.

According to the Law School Admission Council, "as long as [students] receive an education including critical analysis, logical reasoning, and written and oral expression, the range of acceptable college majors is very broad." To develop these very essential skills, students should consider taking courses in the humanities, such as political science or history (critical analysis), philosophy (logic), communication and English (oral/written communication), and math and science (analytical reasoning).

Most law schools have high standards for grade point average (GPA) and Law School Admission Test (LSAT) scores. In fact, the median GPA for students accepted to the top 25 percent of law schools exceeds 3.50. Similarly, the median LSAT score for these schools is 160 (120-180 scale). In addition to success in the classroom, participation in community service, student activities, leadership training and experience, and study abroad are a plus.

If you are interested in law school, you should contact a pre-law advisor in the Sue J. Henry Center or Pre-Law in 159 Upham Hall (513-529-3737) as early in your college career as possible.

Planning for Medical, Dental, and Veterinary Schools

Most medical, dental, and veterinary schools limit admission requirements to allow for students from a variety of undergraduate programs. All schools recognize the desirability of a broad education that includes a strong foundation in natural sciences, the basis for study and practice of health professions; communication skills, essential for developing successful relationships with the public and professionals; and social sciences and humanities, in order to better understand yourself and others.

Therefore, you should follow an undergraduate program that is as broad and comprehensive as possible in order to prepare for a career in a people-oriented profession in a changing society. Pursuing a double major in sciences is not advised if it is done at the expense of obtaining a broad education.

Common admission requirements include two years of chemistry, two years of biology, one year of physics, and one year of English. However, requirements of schools may vary. You should therefore consider individual requirements of schools and plan your curriculum accordingly.

Students who plan to go to professional schools should see an academic advisor before taking any course on a credit/no-credit

basis. In addition, using AP credit for classes required by professional schools **is not** recommended.

Many students planning to attend medical, dental, or veterinary school major in biology, zoology, microbiology, chemistry or biochemistry.

A recommended program for your first year is:

Code	Title	Credit Hours
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Select one of the following:

BIO 115 & BIO 116	Biological Concepts: Ecology, Evolution, Genetics, and Diversity and Biological Concepts: Structure, Function, Cellular, and Molecular Biology	
MTH 151 & MTH 251	Calculus I and Calculus II	

Select the following:

CHM 141 & CHM 144	College Chemistry and College Chemistry Laboratory	5
CHM 142 & CHM 145	College Chemistry and College Chemistry Laboratory	5
One year of English Composition or Equivalent		
Electives (applying toward the College Requirement and Miami Plan)		

Science courses are demanding and for many freshmen the first semester is a difficult period. Therefore, your electives should not be difficult courses for you.

During your sophomore and/or junior year, take organic chemistry and lab (CHM 241, CHM 242 and CHM 244, CHM 245 or CHM 251, CHM 252 and CHM 254, CHM 255) and physics and lab (PHY 161 and PHY 162 or PHY 191 and PHY 192). A year of biology (BIO/MBI 115, BIO/MBI 116) should be taken sometime during your first two years.

Medical schools require the Medical College Admission Test (MCAT), dental schools require the Dental Admission Test (DAT), and most veterinary schools want the Graduate Record Exam. You are strongly urged to talk with a pre-professional advisor as early as possible in preparing for one of these careers.

For more information go to the Mallory-Wilson Center for Healthcare Education in 106 Pearson Hall (513-529-3737) or talk with one of our pre-medicine advisors in biology or in chemistry and biochemistry, microbiology, physics, or psychology. Pre-dentistry and pre-veterinary advisors are also in biology.

Planning for Physician Assistant Programs

Physician Assistants (PAs) are healthcare professionals who practice medicine as members of a team with their supervising physicians.

PAs deliver a broad range of medical and surgical services to diverse populations in rural and urban settings. As part of their comprehensive responsibilities, PAs conduct physical exams, diagnose and treat illnesses, order and interpret tests, counsel on preventive health care, assist in surgery, and prescribe medications.

Recommended courses:

Code	Title	Credit Hours
Life Science Courses:		
BIO/MBI 115	Biological Concepts: Ecology, Evolution, Genetics, and Diversity	4
BIO/MBI 116	Biological Concepts: Structure, Function, Cellular, and Molecular Biology	4
BIO 201 or KNH 244 & 244L	Human Anatomy ¹ Functional Anatomy and Functional Anatomy Laboratory	4
BIO 161 or BIO 305	Principles of Human Physiology Human Physiology	4
MBI 201	General Microbiology	4
Inorganic Chemistry - take both:		
CHM 141 & CHM 144	College Chemistry and College Chemistry Laboratory	5
CHM 142 & CHM 145	College Chemistry and College Chemistry Laboratory	5
Organic/Biochemistry - choose 1 option		8-10
CHM 241 & CHM 244	Organic Chemistry and Organic Chemistry Laboratory	
CHM 242 & CHM 245	Organic Chemistry and Organic Chemistry Laboratory	
or		
CHM 231 & CHM 332 & CHM 332L	Fundamentals of Organic Chemistry and Outlines of Biochemistry and Outlines of Biochemistry Lab	
Mathematics Courses:		
MTH 125	Precalculus	5
STA 261	Statistics	4
Psychology Courses:		
PSY 111 & PSY 112	Introduction to Psychology and Foundational Experiences in Psychology	4
1 upper-level PSY depending on the PA program		3
Total Credit Hours		54-56

¹ KNH courses are not accepted by every PA program. PA Program requirements are not standard, so once you have decided to pursue a career as a PA please contact the PA schools to which you plan on applying to verify their course prerequisites.

For additional information, please visit the Mallory-Wilson Center for Healthcare Education in 106 Pearson Hall (513-529-3737).

Planning for Optometry School

Typical admission requirements for optometry school include one year of English, one year of biology, two years of chemistry, one year of physics, one semester of mathematics (calculus and statistics), one semester of psychology, one year of social science, one semester of microbiology, and one or two semesters of physiology. Since specific requirements vary, you should contact schools where you may apply, and plan your curriculum accordingly. Most pre-optometry students major in biology, zoology, chemistry, or microbiology.

Optometry schools require the Optometry Admission Test. It is available only online (<http://www.ada.org/en/oat/>).

A recommended program for your first year is:

Code	Title	Credit Hours
One year of English Composition or Equivalent		6
BIO/MBI 115	Biological Concepts: Ecology, Evolution, Genetics, and Diversity	4
BIO/MBI 116	Biological Concepts: Structure, Function, Cellular, and Molecular Biology	4
BIO 305	Human Physiology	4
MBI 201	General Microbiology	4
Inorganic Chemistry- take both:		10
CHM 141 & CHM 144	College Chemistry and College Chemistry Laboratory	
CHM 142 & CHM 145	College Chemistry and College Chemistry Laboratory	
Organic Chemistry/Biochemistry - choose one option:		8-10
CHM 241 & CHM 244	Organic Chemistry and Organic Chemistry Laboratory	
CHM 242 & CHM 244	Organic Chemistry and Organic Chemistry Laboratory	
or		
CHM 231 & CHM 332 & CHM 332L	Fundamentals of Organic Chemistry and Outlines of Biochemistry and Outlines of Biochemistry Lab	
Physics- choose one option:		8-10
PHY 161 & PHY 162	Physics for the Life Sciences with Laboratory I and Physics for the Life Sciences with Laboratory II	
PHY 191 & PHY 192	General Physics with Laboratory I and General Physics with Laboratory II	
MTH 151	Calculus I	5
STA 261	Statistics	4
PSY 111 & PSY 112	Introduction to Psychology and Foundational Experiences in Psychology	4
Total Credit Hours		61-65

Some schools do not require all of these courses and some schools may require or recommend other courses such as *Comparative Anatomy* (BIO 201) or *Developmental Psychology* (PSY 231). With respect to advanced chemistry, schools may require as little as 1 semester of Organic Chemistry to as much as 1 year of Organic Chemistry plus 1 semester of Biochemistry. The CHM 231 and CHM 332 combination is the best choice for some, but not all, schools. Contact the schools you are interested in to check admission requirements.

Planning for Pharmacy School

Because the Doctor of Pharmacy is now the only accredited degree for pharmacy, you should complete a bachelor's degree (usually in zoology, microbiology, or chemistry), or at least two years of prerequisite coursework, and apply to a Doctor of Pharmacy program.

Typical prerequisites for pharmacy school include course work in calculus; inorganic, organic, and analytical chemistry; English, biology or microbiology, physics and statistics. Since specific requirements vary, contact schools of interest, and plan your curriculum accordingly. For more information, consult with the pre-pharmacy advisor in the Department of Biology.

Code	Title	Credit Hours
	One year of English Composition or Equivalent	6
MTH 151	Calculus I ¹	5
STA 261	Statistics	4
BIO/MBI 115	Biological Concepts: Ecology, Evolution, Genetics, and Diversity	4
BIO/MBI 116	Biological Concepts: Structure, Function, Cellular, and Molecular Biology	4
MBI 201	General Microbiology	4
BIO 305	Human Physiology ²	4
BIO 201	Human Anatomy	4
	General Chemistry - take both:	10
CHM 141 & CHM 144	College Chemistry and College Chemistry Laboratory	5
CHM 142 & CHM 145	College Chemistry and College Chemistry Laboratory	5
	Organic Chemistry - take both:	8-10
CHM 241 & CHM 244	Organic Chemistry and Organic Chemistry Laboratory	5
CHM 242 & CHM 244	Organic Chemistry and Organic Chemistry Laboratory	5
	Biochemistry - take one:	
CHM 432/ CHM 532	Fundamentals of Biochemistry	3-4
or CHM 332	Outlines of Biochemistry	
	Physics- choose one option:	8-10
PHY 161 & PHY 162	Physics for the Life Sciences with Laboratory I and Physics for the Life Sciences with Laboratory II	
PHY 191 & PHY 192	General Physics with Laboratory I and General Physics with Laboratory II	
PSY 111 & PSY 112	Introduction to Psychology and Foundational Experiences in Psychology	4
	Total Credit Hours	88-93

¹ Some programs may require a second semester of calculus, in which case a student would continue on to MTH 251.

² Some programs require a second semester of physiology; please contact the pre-pharmacy advisor for more options, if necessary.

Many schools do not require all of these courses. Others may require or recommend additional courses or training in areas such as:

- quantitative analysis/analytical chemistry
- microeconomics
- interpersonal communication
- technical writing

Because requirements are not standardized, it is very important to contact every school of interest.

Planning for Physical Therapy School

If you are interested in a career in physical or occupational therapy, you should take courses that meet the prerequisites for graduate degree programs in those areas. The Pre-Physical and Pre-Occupational Therapy Program at Miami is designed to provide students with the basic science and related courses needed for background preparation and admission into an accredited physical or occupational therapy program.

The American Physical Therapy Association (APTA) has announced that all physical therapy programs must offer doctoral degrees by 2020. According to the American Occupational Therapy Association (AOTA), all baccalaureate occupational therapy programs nationwide are expected to transition to master's degree granting programs by 2007. Therefore, students interested in physical or occupational therapy usually complete their bachelor's degree at Miami and then apply to a master's or doctoral degree program in physical or occupational therapy at another school.

Because there is no standard set of prerequisite courses required by physical or occupational therapy programs, you must contact schools for their requirements. Select courses at Miami that will meet requirements for your program.

The following courses are required prior to admission by most programs (**note that this is only a general guideline**):

Code	Title	Credit Hours
BIO/MBI 115	Biological Concepts: Ecology, Evolution, Genetics, and Diversity	4
BIO/MBI 116	Biological Concepts: Structure, Function, Cellular, and Molecular Biology	4
CHM 141 & CHM 144	College Chemistry and College Chemistry Laboratory	5
CHM 142 & CHM 145	College Chemistry and College Chemistry Laboratory	5
PHY 161 & PHY 162	Physics for the Life Sciences with Laboratory I and Physics for the Life Sciences with Laboratory II	8-10
or PHY 191 & PHY 192	General Physics with Laboratory I and General Physics with Laboratory II	
BIO 201	Human Anatomy ¹	4-8
or BIO 201 & KNH 244 & KNH 244L	Human Anatomy and Functional Anatomy and Functional Anatomy Laboratory	
BIO 305	Human Physiology ²	4

or BIO 161	Principles of Human Physiology	
STA 261	Statistics	4
KNH 381 & 381L	Biodynamics of Human Performance and Biodynamics of Human Performance Lab	4
KNH 468/KNH 568	Physiology of Exercise and Physical Activity	3
ENG 111	Composition and Rhetoric	3
PSY 111 & PSY 112	Introduction to Psychology and Foundational Experiences in Psychology	4
PSY 231	Developmental Psychology	3
KNH 209	Medical Terminology for Health Professionals	3

Less Common Prerequisite Courses for PT programs include:p

CHM 231	Fundamentals of Organic Chemistry	4
CHM 332	Outlines of Biochemistry	3
PHL 131 or PHL 375 or SOC 357	Introduction to Ethics ³ Medical Ethics Medical Sociology	3
STC 135	Principles of Public Speaking	3
SOC 151 or SOC 153	Social Relations Sociology in a Global Context	4

¹ Meets human anatomy prerequisite.

² Meets human physiology prerequisite.

³ SOC 357 is one semester of philosophy/medical ethics.

For more information, contact a physical therapy program advisor in the Department of Biology or the Department of Kinesiology and Health.

Teacher Licensure

Combining a teacher licensure program with a major in the College of Arts and Science makes a student eligible for two degrees: an A.B. or B.S. degree in the College of Arts and Science and a B.S. in Education degree in the College of Education, Health and Society. Students who wish to combine licensure with an Arts and Science major must observe rules, procedures, and restrictions pertaining to admission to a licensure cohort.

If you choose to earn two degrees, you must meet all requirements for the Miami Plan, the College of Arts and Science, and teacher licensure. Early in your program, you should plan your schedule with academic advisors from the College of Arts and Science and the College of Education, Health and Society.

For information, contact the Department of Teacher Education in the College of Education, Health and Society, 202 McGuffey Hall (513-529-6443).

The College Requirement (CAS)

The divisional requirement in Arts and Science is called the College Requirement (CAS). The CAS Requirement emphasizes skills and competencies needed for the 21st century, as well as breadth of knowledge in the humanities, social sciences, and natural sciences

(biological and physical). Together with the depth of knowledge acquired within a major, the CAS Requirement prepares students for a variety of educational, professional, and career aspirations

If you are working toward a Bachelor of Arts (A.B.), you must fulfill all sections of the CAS Requirement; if you are working toward a Bachelor of Science (B.S.), you must fulfill only CAS-A (foreign language), but the B.S. requires more hours of within your major and related hours.

The College Requirement includes:

- CAS-A Foreign Language
- CAS-B Humanities
- CAS-C Social Science
- CAS-D Natural Science
- CAS-E Formal Reasoning
- CAS-QL Quantitative Literacy
- CAS-W Writing Competence

When you plan your program, keep these important points in mind:

- Although some CAS and Miami Plan courses overlap, not all courses will count toward both requirements: see the section on CAS courses that fulfill Miami Plan Foundation requirements.
- Some courses you take for the Miami Plan or the College Requirement can also help fulfill your major, minor, or related hour requirement.
- Any course cross-listed in two or more departments can be used to satisfy a requirement appropriate to any of the departments in which it is listed.

CAS-A Foreign Language

Direct acquisition of a different communication system facilitates access to a foreign culture. It also promotes understanding of how language structures human consciousness, increases the understanding of your own language, and makes possible a more informed awareness of the interaction between language and other social institutions.

All foreign languages taught at Miami are applicable for this requirement; they include: American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Italian, Japanese, Korean, Latin, Portuguese, Russian, and Spanish.

Requirement: The foreign language requirement may be met in any one of the following ways:

- By passing the 202 course (or its equivalent in a program abroad), or a language course at the 300 level or above that has 202 as a prerequisite; courses in English translation **cannot** apply to this requirement.
- By earning credit through a foreign language examination (Advanced Placement or College Level Examination Program) with an appropriate score. Information on acceptable scores is included in the Academic Planning chapter of this Bulletin.
- International students whose native language is not English may use English to satisfy the foreign language requirement. (See the College of Arts & Science Academic Advising Office.)

- Students who are fluent in a language not offered at Miami University should work with a divisional advisor on how to satisfy this requirement.
- In some language departments admission to language skills courses may be denied to native or quasi-native speakers and heritage speakers.

GRK 202 or LAT 202 may fulfill either CAS-A or CAS-B-LIT, but not both.

The foreign language placement guide in the Academic Planning section describes the background necessary to enter a course at a certain level; this will help you choose your first course. Placement tests are a diagnostic tool and **do not** award academic credit.

See CAS - Miami Plan Foundations (MPF) for a list of CAS-A courses that also fulfill Miami Plan Foundation requirements.

CAS-B Humanities

(9 semester hours)

Liberally educated students become familiar with and understand human values as they are expressed in societies and cultures. They know events and ideas that help form ideals, classical and contemporary literature that expresses beliefs, and religious and philosophical principles that stand behind actions. They are cognizant of processes whereby these values and works came into being, of methods by which they may be examined, and of needs and desires they express and fulfill.

Requirement:

- Nine semester hours total
- Six hours must be from two different sub-categories: history, literature, philosophy, and religion.
- Humanities courses include all courses from the departments of: History, (including CLS 101 and CLS 102), Philosophy (except PHL 273), Comparative Religion; and literature courses offered by the departments of: Classics; English; French and Italian; German, Russian, and East Asian Languages; Spanish and Portuguese; and Theatre. These courses are designated as CAS-B-LIT in the Courses of Instruction section of this Bulletin.
- The remaining three hours may be taken from the sub-categories, or from a list of courses that do not fall into a specific sub-category.

See CAS - Miami Plan Foundations (MPF) for a list of CAS-B courses that also fulfill Miami Plan Foundation requirements.

CAS-C Social Science

(9 semester hours)

Through study of social science (the systematic study of human behavior, human institutions, and theoretical models through which human beings attempt to organize their lives), liberally educated students become familiar with regularities and variations in human behavior, with explanations of these regularities and variations, with methods useful in systematically and objectively validating propositions concerning these phenomena, and with potential for analyzing human behavior objectively.

Requirement:

- Nine semester hours total
- Six hours must be from two different sub-categories: anthropology, economics, geography, political science, psychology, and sociology/gerontology.
- Social Science courses include all courses from the departments of: Anthropology; Economics; Geography (except GEO 121, GEO 431/GEO 531, and GEO 432/GEO 532); Political Science; Psychology; and Sociology and Gerontology.
- The remaining three hours may be taken from the sub-categories, or from a list of courses that do not fall a specific sub-category.

See CAS - Miami Plan Foundations (MPF) for a list of CAS-C courses that also fulfill Miami Plan Foundation requirements.

CAS-D Natural Science

(10 semester hours)

Liberally educated students learn to understand natural phenomena through observations and experimentation. Physical sciences are involved largely with the behavior of energy, particles, atoms, and molecules. Biological sciences are concerned with nature, variation, richness, and interactions of phenomena of life. The natural science requirement introduces you to various aspects of scientific inquiry as practiced in biology, botany, chemistry, geology, microbiology, physical geography, and physics. Laboratory experience is included to demonstrate the relationship between theories or models used within a given science and experimental results.

Requirement:

- Ten semester hours from courses within the College of Arts and Science natural science areas
- At least three semester hours in biological science
- At least three semester hours in physical science
- One laboratory course (Consult with an advisor to identify an appropriate laboratory course for you to take)
- Biological science includes all courses offered by the departments of: Biology (except BIO 128), Microbiology, as well as GEO 431/ GEO 531 and GEO 432/GEO 532.
- Physical science includes all courses offered by the departments of: Chemistry and Biochemistry, Geology & Environmental Earth Science, and Physics, as well as GEO 121 and GEO 122.

See CAS - Miami Plan Foundations (MPF) for a list of CAS-D courses that also fulfill Miami Plan Foundation requirements.

CAS-E Formal Reasoning

(3 semester hours)

Liberally educated students enhance their capacity to reason through the study in inductive and deductive thinking. Disciplines that employ formalized languages as the means to develop such thinking include mathematics, statistics, logic, and linguistics. Unlike the Miami Plan, this requirement does not include topics pertaining to technology.

Requirement:

- Three semester hours, designated as CAS-E in the Courses of Instruction section of this Bulletin
- Your math placement is based upon your ACT/SAT math sub-scores; please consult the mathematics and statistics placement guide in the Academic Planning chapter, or an academic advisor, to determine the appropriate course for you to take.
- Many majors either require or strongly suggestion a specific course for this requirement

See CAS - Miami Plan Foundations (MPF) for a list of CAS-E courses that also fulfill Miami Plan Foundation requirements.

CAS-QL Quantitative Literacy

(3 semester hours)

Liberal education students learn the "habit of mind" associated with reasoning and solving quantitative problems from a wide array of authentic contexts and everyday life situations.

Requirement:

- Three semester hours, designated as CAS-QL in the Courses of Instruction section of this Bulletin
- A student **cannot** take a course for both this requirement and the Global Miami Plan Foundation V or CAS-E requirements; however, the same course can be applied to other areas in the Global Miami Plan Foundation or CAS requirements and the CAS-QL.

Quantitative literacy courses include:

Code	Title	Credit Hours
ATH 496	Observing Primate Behavior	4
BIO/MBI 116	Biological Concepts: Structure, Function, Cellular, and Molecular Biology	4
BIO 161	Principles of Human Physiology	4
CHM 111	Chemistry in Modern Society	3
CHM 375	Analytical Chemistry for Majors	3
ECO 311	Examining Economic Data and Models	3
ENG 222	The Rhetoric of Information and Data Visualization	3
GEO 205	Population and Migration	3
GEO 242	Mapping a Changing World	3
GHS 201	Data and Decisions in Global Health	3
GLG 111	The Dynamic Earth	3
GLG 121	Environmental Geology	3
GLG 141	Geology of U.S. National Parks	3
IMS 404/IMS 504	Advanced Data Visualization	3
JRN 404/JRN 504	Advanced Data Visualization	3
JRN 412	Public Affairs Reporting	3
MTH 435/ MTH 535	Mathematical Modeling Seminar	3
MTH 453/ MTH 553	Numerical Analysis	3

POL 241	American Political System	3
POL 306	Applied Research Methods	3
PSY 293	Introduction to Psychological Statistics	4
PSY 294	Writing and Research Methods in Psychology	4
PSY 324	Advanced Social Psychology ¹	3
SOC 262	Research Methods	3
STA/ISA 333	Nonparametric Statistics	3
STA 363	Introduction to Statistical Modeling	3
STA 404/STA 504	Advanced Data Visualization	3
STA 475	Data Analysis Practicum	3
STC 262	Empirical Research Methods	3
WGS 204	Gender, Science, & Technology	3

¹ Only specific sections of PSY 324 are designated QL; see the departmental advisor for information.

See CAS - Miami Plan Foundations (MPF) for a list of CAS-QL courses that also fulfill Miami Plan Foundation requirements.

CAS-W Writing Competence

Liberal education students develop advanced writing abilities in their majors. Students learn the writing practices and conventions of their discipline or interdisciplinary area and communicate the results of research in their area to a general public.

Effective writing is learned gradually and through ongoing attention and sustained feedback. As such, each Bachelor of Arts major has a course or set of courses embedded in the requirements for the major. These courses are identified in the Bachelor of Arts major descriptions.

CAS Courses That Fulfill Miami Plan Foundation (MPF) Requirements

A course can be used once in the Global Miami Plan and a second time for the CAS requirements; we call this "double-dipping". This page is meant to help you identify courses that will double-dip and is separated by each CAS requirement:

CAS-A Foreign Language, CAS-B Humanities, CAS-C Social Science, CAS-D Natural Science, CAS-E Formal Reasoning, and CAS-QL Quantitative Literacy

A course can only be used once within the CAS requirements- the only exception to this is with a natural science course that has a built-in laboratory component, which will cover the lab requirement (credit is not awarded twice, the course is just applied in both places).

**CAS-A Foreign Language
MPF Humanities**

Code	Title	Credit Hours
FRE 202	Critical Analysis of French Culture	3

MPF Global Perspectives

Code	Title	Credit Hours
FRE 202	Critical Analysis of French Culture	3

CAS-B Humanities (9 hrs)

Nine semester hours, six hours taken from two categories: History, Literature, Philosophy and Religion.

The remaining three hours may be either taken from one of these categories or from the courses found below in the non-specific category that also fulfill a Global Miami Plan requirement.

History

Any HST course, or one of the following courses that also fulfill a Global Miami Plan requirement:

MPF Humanities

Code	Title	Credit Hours
BWS 224	Africa to 1884	3
BWS 225	The Making of Modern Africa	3
CLS 101	Greek Civilization in its Mediterranean Context	3
CLS 102	Roman Civilization	3
HST 111	Survey of American History	3
HST 112	Survey of American History	3
HST 197	World History to 1500	3
HST 198	World History Since 1500	3
HST 224	Africa to 1884	3
HST 225	The Making of Modern Africa	3
HST 245	Making of Modern Europe, 1450-1750	3
HST 254	Introduction to Russian and Eurasian Studies	3
HST 260	Latin America in the United States	3
HST 296	World History Since 1945	3
LAS 260	Latin America in the United States	3

MPF Global Perspectives

Code	Title	Credit Hours
HST 197	World History to 1500	3
HST 198	World History Since 1500	3
HST 245	Making of Modern Europe, 1450-1750	3
HST 260	Latin America in the United States	3
HST 296	World History Since 1945	3
LAS 260	Latin America in the United States	3

MPF Intercultural Perspectives

Code	Title	Credit Hours
AMS 382	Women in American History	3
AMS 392	Sex and Gender in American Culture	3
BWS 221	African-American History	3
BWS 386	Race in U.S. Society	3
HST 213	Appalachia: Cultures and Music	3
HST 221	African-American History	3
HST 260	Latin America in the United States	3
HST 382	Women in American History	3
HST 386	Race in U.S. Society	3
HST 392	Sex and Gender in American Culture	3
LAS 260	Latin America in the United States	3

WGS 382	Women in American History	3
WGS 392	Sex and Gender in American Culture	3

Literature

Any CAS-B Lit courses in AMS, ENG, CLS, THE, a foreign language literature course, or one of the courses below that also fulfill a Global Miami Plan requirement:

MPF Creative Arts

Code	Title	Credit Hours
THE 101	Introduction to Theatre: Drama and Analysis	3
THE 191	Experiencing Theatre	3

MPF Humanities

Code	Title	Credit Hours
AAA 248	Asian American Literature	3
AMS 248	Asian American Literature	3
CHI 251	Traditional Chinese Literature in English Translation	3
CHI 252	Modern Chinese Literature in English Translation	3
CHI 255	Drama in China and Japan in Translation	3
CHI 257	Chinese Satire	3
CLS 121	Introduction to Classical Mythology	3
ENG 122	Popular Literature	3
ENG 123	Introduction to Poetry	3
ENG 124	Introduction to Fiction	3
ENG 125	Introduction to Drama	3
ENG 134	Introduction to Shakespeare	3
ENG 163	Literature and Travel	3
ENG 248	Asian American Literature	3
ENG 251	Introduction to European Literature	3
ENG 254	Latino/a Literature and the Americas	3
ENG 255	Russian Literature in English Translation From Pushkin to Dostoevsky	3
ENG 256	Russian Literature in English Translation: From Tolstoy to Nabokov	3
ENG 267	Russian Literature in English Translation: From Pasternak to the Present	3
ENG 272	English Literature to 1660	3
ENG 273	English Literature 1660-1900	3
ENG 274	English Literature 1901 to Present	3
ENG 275	American Literature to 1900	3
ENG 276	American Literature 1900 to the Present	3
FRE 131	Masterpieces of French Culture in Translation	3
GER 231	Folk and Literary Fairy Tales	3
GER 252	The German-Jewish Experience	3
GER 321	Cultural Topics in German-Speaking Europe Since 1870	3

GER 322	Comparative Study of Everyday Culture: German-Speaking Europe and the U.S.A.	3
JPN 231	Japanese Tales of the Supernatural in English Translation	3
JPN 255	Drama in China and Japan in English Translation	3
LAS 254	Latino/a Literature and the Americas	3
RUS 137	Russian Folklore	3
RUS 255	Russian Literature in English Translation From Pushkin to Dostoevsky	3
RUS 256	Russian Literature in English Translation: From Tolstoy to Nabokov	3
RUS 257	Russian Literature in English Translation: From Pasternak to the Present	3
SPN 315	Intro to Hispanic Literatures	3

MPF Global Perspectives

Code	Title	Credit Hours
CHI 257	Chinese Satire	3
ENG 254	Latino/a Literature and the Americas	3
ENG 256	Russian Literature in English Translation: From Tolstoy to Nabokov	3
ENG 267	Russian Literature in English Translation: From Pasternak to the Present	3
FRE 131	Masterpieces of French Culture in Translation	3
LAS 254	Latino/a Literature and the Americas	3
RUS 256	Russian Literature in English Translation: From Tolstoy to Nabokov	3
RUS 257	Russian Literature in English Translation: From Pasternak to the Present	3

MPF Intercultural Perspectives

Code	Title	Credit Hours
AAA 248	Asian American Literature	3
AMS 248	Asian American Literature	3
ENG 232	Women Writers	3
ENG 248	Asian American Literature	3
ENG 254	Latino/a Literature and the Americas	3
LAS 254	Latino/a Literature and the Americas	3
WGS 232	Women Writers	3

Philosophy

Any PHL course **except** PHL 273, PHL 373; one of the courses below would also fulfill a Global Miami Plan requirement:

MPF Humanities

Code	Title	Credit Hours
PHL 103	Society and the Individual	3
PHL 104	Purpose or Chance in the Universe	3

PHL 105	Theories of Human Nature	3
PHL 106	Thought and Culture of India	3
PHL 131	Introduction to Ethics	3

Religion

Any REL course, or one of the courses below that also fulfills a Global Miami Plan requirement:

MPF Humanities

Code	Title	Credit Hours
AAA 203	Global Religions of India	3
BIO 128	Religion, Science, and Origins	3
REL 101	Introduction to the Study of Religion	3
REL 128	Religion, Science, and Origins	3
REL 133	Imagining Russia	3
REL 203	Global Religions of India	3
REL 254	Introduction to Russian and Eurasian Studies	3
REL 275	Introduction to the Critical Study of Biblical Literature	3
REL 286	Global Jewish Civilization	3
REL 314	Social and Religious History of the Jewish People	3
RUS 133	Imagining Russia	3

MPF Global Perspectives

Code	Title	Credit Hours
AAA 203	Global Religions of India	3
REL 133	Imagining Russia	3
REL 203	Global Religions of India	3
REL 286	Global Jewish Civilization	3
RUS 133	Imagining Russia	3

MPF Intercultural Perspectives

Code	Title	Credit Hours
AMS 241	Religions of the American Peoples	3
AMS 342	Religious Pluralism in Modern America	4
REL 241	Religions of the American Peoples	3
REL 313	Marriage Across Cultures	3
REL 342	Religious Pluralism in Modern America	3

Non-specific Category Courses**MPF Creative Arts**

Code	Title	Credit Hours
ARC 188	Ideas in Architecture	3
ART 187	History of Western Art: Prehistoric-Gothic	3
ART 188	History of Western Art: Renaissance - Modern	3
ART 276	Introduction to the Art of the Black Diaspora	3
ART 286	History of Asian Art, China, Korea, and Japan	3

BWS 276	Introduction to the Art of the Black Diaspora	3
MUS 185	The Diverse Worlds of Music	3
MUS 186	Global Popular Music	3
MUS 189	Great Ideas in Western Music	3

MPF Humanities

Code	Title	Credit Hours
AAA 201	Introduction to Asian/ Asian American Studies	3
AMS 205	Introduction to American Cultures	3
AMS 207	America: Global and Intercultural Perspectives	3
AMS 222	Italian American Culture	3
ARC 188	Ideas in Architecture	3
ART 187	History of Western Art: Prehistoric-Gothic	3
ART 188	History of Western Art: Renaissance - Modern	3
ART 286	History of Asian Art, China, Korea, and Japan	3
BWS 204	Brazilian Culture Through Popular Music	3
BWS 276	Introduction to the Art of the Black Diaspora	3
BWS 383	Brazilian Women through Literature and Film	3
DST 169	Disability and Literature	3
ENG 169	Disability and Literature	3
ENG 171	Humanities and Technology	3
ENG 202	Varieties of English: Dialect Diversity and Language Change	3
ENG 238	Narrative and Digital Technology	3
ENG 383	Brazilian Women through Literature and Film	3
FST 201	Film History and Analysis	3
FST 204	Brazilian Culture Through Music and Film	3
FST 206	Diversity and Culture in American Film	3
FST 222	Italian American Culture	3
FST 383	Brazilian Women through Literature and Film	3
GER 151	The German-American Experience	3
GER 232	The Holocaust in German Literature, History, and Film	3
GIC 101	Global and Intercultural Studies	3
GIC 301	Approaches to Global and Intercultural Studies: Globalization and Belonging	3
IDS 206	Diversity and Culture in American Film	3
IMS 171	Humanities and Technology	3
IMS 238	Narrative and Digital Technology	3
ITL 221	Italy, Matrix of Civilization	3
ITL 222	Italian American Culture	3
JRN 101	Introduction to Journalism	3

LAS 204	Brazilian Culture Through Popular Music	3
MAC 143	Introduction to Media	3
MUS 185	The Diverse Worlds of Music	3
MUS 186	Global Popular Music	3
MUS 189	Great Ideas in Western Music	3
MUS 204	Brazilian Culture Through Music and Film	3
POR 204	Brazilian Culture Through Music and Film	3
POR 383	Brazilian Women through Literature and Film	3
WGS 202	Introduction to GLBT Studies	3
WGS 383	Brazilian Women through Literature and Film	3
WST 201	Self and Place	3

MPF Global Perspectives

Code	Title	Credit Hours
AAA 201	Introduction to Asian/ Asian American Studies	3
AMS 207	America: Global and Intercultural Perspectives	3
ART 276	Introduction to the Art of the Black Diaspora	3
BWS 204	Brazilian Culture Through Popular Music	3
BWS 276	Introduction to the Art of the Black Diaspora	3
BWS 383	Brazilian Women through Literature and Film	3
ENG 383	Brazilian Women through Literature and Film	3
FST 204	Brazilian Culture Through Music and Film	3
FST 383	Brazilian Women through Literature and Film	3
GER 232	The Holocaust in German Literature, History, and Film	3
GIC 101	Global and Intercultural Studies	3
GIC 301	Approaches to Global and Intercultural Studies: Globalization and Belonging	3
LAS 204	Brazilian Culture Through Popular Music	3
MUS 185	The Diverse Worlds of Music	3
MUS 186	Global Popular Music	3
MUS 204	Brazilian Culture Through Music and Film	3
POR 204	Brazilian Culture Through Music and Film	3
POR 383	Brazilian Women through Literature and Film	3
WGS 383	Brazilian Women through Literature and Film	3

Intercultural Perspectives

Code	Title	Credit Hours
AMS 205	Introduction to American Cultures	3
AMS 207	America: Global and Intercultural Perspectives	3
AMS 222	Italian American Culture	3
DST 169	Disability and Literature	3
ENG 169	Disability and Literature	3
ENG 202	Varieties of English: Dialect Diversity and Language Change	3
FST 206	Diversity and Culture in American Film	3
FST 222	Italian American Culture	3
GER 151	The German-American Experience	3
IDS 206	Diversity and Culture in American Film	3
ITL 222	Italian American Culture	3
WGS 202	Introduction to GLBT Studies	3

CAS-C Social Science (9 hrs)

Nine semester hours, six hours taken from **two** categories: Anthropology, Economics, Geography, Political Science, Psychology and Sociology & Gerontology

The remaining three hours may be taken from the one of these categories or from the courses found below in the non-specific category that also fulfill a Global Miami Plan requirement.

Anthropology

Any ATH course, LAS 208 or one of the following courses that also fulfill a Global Miami Plan requirement:

MPF Social Science

Code	Title	Credit Hours
ATH 145	Lost Cities & Ancient Civilizations	3
ATH 155	Introduction to Anthropology	3
ATH 175	Peoples of the World	3
ATH 185	Cultural Diversity in the U.S.	3
ATH 206	Introduction to Latin America	3
ATH 405/ATH 505	Food, Taste, and Desire	3
LAS 208	Introduction to Latin America	3

MPF Global Perspectives

Code	Title	Credit Hours
ATH 135	Film as Ethnography	1
ATH 145	Lost Cities & Ancient Civilizations	3
ATH 155	Introduction to Anthropology	3
ATH 175	Peoples of the World	3
ATH 185	Cultural Diversity in the U.S.	3
ATH 206	Introduction to Latin America	3
ATH 358	Travelers, Migrants, and Refugees: Transnational Migration and Diasporic Communities	3
ATH 361	Language and Power	3
ATH 405/ATH 505	Food, Taste, and Desire	3

FST 135	Film as Ethnography	1
LAS 208	Introduction to Latin America	3

MPF Intercultural Perspectives

Code	Title	Credit Hours
ATH 185	Cultural Diversity in the U.S.	3

Economics

Any ECO course, or one of the following courses that also fulfill a Global Miami Plan requirement:

MPF Social Science

Code	Title	Credit Hours
ECO 131	Economic Perspectives on Inequality in America	3
ECO 201	Principles of Microeconomics	3
ECO 202	Principles of Macroeconomics	3

MPF Intercultural Perspectives

Code	Title	Credit Hours
ECO 131	Economic Perspectives on Inequality in America	3

Geography

Any GEO course (except GEO 121, GEO 122, GEO 431/GEO 531, GEO 432/GEO 532), ITS 208, or one of the following courses that also fulfill a Global Miami Plan requirement:

MPF Social Science

Code	Title	Credit Hours
GEO 101	Global Forces, Local Diversity	3
GEO 111	World Regional Geography: Patterns and Issues	3
GEO 159	Creating Global Peace	3
GEO 201	Geography of Urban Diversity	3
GEO 208	The Rise of Industrialism in East Asia	3
ITS 208	The Rise of Industrialism in East Asia	3

MPF Global Perspectives

Code	Title	Credit Hours
GEO 101	Global Forces, Local Diversity	3
GEO 159	Creating Global Peace	3

MPF Intercultural Perspectives

Code	Title	Credit Hours
GEO 201	Geography of Urban Diversity	3
GEO 302	Geography and Gender	3
GEO 309	Native American Women	3
GEO 436/GEO 536	Women, Gender, and the Environment	3
GEO 455	Race, Urban Change, and Conflict in America	3
WGS 309	Native American Women	3

WGS 436/ WGS 536	Women, Gender and the Environment	3
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Political Science

Any POL course, or one of the following courses that also fulfill a Global Miami Plan requirement:

MPF Social Science

Code	Title	Credit Hours
POL 142	American Politics and Diversity	3
POL 221	Comparative Politics	3
POL 241	American Political System	3
POL 271	World Politics	3

MPF Global Perspectives

Code	Title	Credit Hours
POL 221	Comparative Politics	3
POL 271	World Politics	3

MPF Intercultural Perspectives

Code	Title	Credit Hours
POL 142	American Politics and Diversity	3

Psychology

Any PSY course, AAA 210, or one of the following courses that also fulfill a Global Miami Plan requirement:

MPF Social Science

Code	Title	Credit Hours
AAA 210	Psychology Across Cultures	3
PSY 111	Introduction to Psychology	3
PSY 210	Psychology Across Cultures	3

MPF Global Perspectives

Code	Title	Credit Hours
AAA 210	Psychology Across Cultures	3
PSY 210	Psychology Across Cultures	3

MPF Intercultural Perspectives

Code	Title	Credit Hours
AAA 210	Psychology Across Cultures	3
PSY 210	Psychology Across Cultures	3

Sociology & Gerontology

MPF Social Science

Code	Title	Credit Hours
BWS 279	African Americans in Sport	3
DST 272	Introduction to Disability Studies	3
EDP 272	Introduction to Disability Studies	3
GTY 154	Big Ideas in Aging	3
ITS 208	The Rise of Industrialism in East Asia	3
KNH 279	African Americans in Sport	3
SJS 159	Creating Global Peace	3

SJS 165	Introduction to Social Justice Studies	3
SOC 151	Social Relations	4
SOC 153	Sociology in a Global Context	3
SOC 165	Introduction to Social Justice Studies	3
SOC 208	The Rise of Industrialism in East Asia	3
SOC 272	Introduction to Disability Studies	3
SOC 279	African Americans in Sport	3

MPF Global Perspectives

Code	Title	Credit Hours
GTY 260	Global Aging	3
SJS 159	Creating Global Peace	3
SJS 487	Globalization, Social Justice and Human Rights	3
SOC 153	Sociology in a Global Context	3
SOC 487	Globalization, Social Justice and Human Rights	3

MPF Intercultural Perspectives

Code	Title	Credit Hours
BWS 348	Race and Ethnic Relations	3
BWS 362	Family Poverty	3
DST 272	Introduction to Disability Studies	3
DST 375	(Dis)Ability Allies: To be or not to be? Developing Identity and Pride from Practice	3
EDP 272	Introduction to Disability Studies	3
EDP 375	(Dis)Ability Allies: To be or not to be? Developing Identity and Pride from Practice	3
GTY 110	Opening Minds through Art (OMA) Volunteer Experience	1
GTY 260	Global Aging	3
GTY 318	Social Forces and Aging	3
SJS 487	Globalization, Social Justice and Human Rights	3
SOC 165	Introduction to Social Justice Studies	3
SOC 203	Sociology of Gender	3
SOC 272	Introduction to Disability Studies	3
SOC 318	Social Forces and Aging	3
SOC 348	Race and Ethnic Relations	3
SOC 362	Family Poverty	3
SOC 372	Social Stratification	3
SOC 375	(Dis)Ability Allies: To be or not to be? Developing Identity and Pride from Practice	3
SOC 487	Globalization, Social Justice and Human Rights	3
WGS 203	Sociology of Gender	3
WGS 375	(Dis)Ability Allies: To be or not to be? Developing Identity and Pride from Practice	3

Non-specific Category Courses**MPF Social Science**

Code	Title	Credit Hours
AAA 201	Introduction to Asian/ Asian American Studies	3
CRE 151	Introduction to Critical Race and Ethnic Studies	3
EDP 101	Psychology Of The Learner	3
EDP 201	Human Development and Learning in Social and Educational Contexts	3
GIC 101	Global and Intercultural Studies	3
GIC 301	Approaches to Global and Intercultural Studies: Globalization and Belonging	3
ITS 201	Introduction to International Studies	3
KNH 276	Current Issues in Leisure and Sport	3
KNH 279	African Americans in Sport	3
LAS 207	Latin America before 1910	3
SPA 127	Introduction to Communication Disorders	3
SPA 223	Theories of Language Development	3
STC 136	Introduction to Interpersonal Communication	3
WGS 201	Introduction to Women's Studies	3

MPF Global Perspectives

Code	Title	Credit Hours
AAA 201	Introduction to Asian/ Asian American Studies	3
AAA 207	Asia and Globalization	3
AAA 201	Introduction to Asian/ Asian American Studies	3
BWS 156	Introduction to Africa	4
GIC 101	Global and Intercultural Studies	3
GIC 301	Approaches to Global and Intercultural Studies: Globalization and Belonging	3
ITS 201	Introduction to International Studies	3
WGS 201	Introduction to Women's Studies	3

MPF Intercultural Perspectives

Code	Title	Credit Hours
AAA 201	Introduction to Asian/ Asian American Studies	3
CRE 151	Introduction to Critical Race and Ethnic Studies	3
WGS 201	Introduction to Women's Studies	3

CAS-D Natural Science (10 hrs)

Ten semester hours, three from each of the following categories: Biological Science and Physical Science

Take additional hours from either category to equal ten total; one course must be, or include, a lab designated CAS-D/LAB in the Courses of Instruction section of this Bulletin.

Biological Science

Complete three hours from any course in BIO (except BIO 128), MBI, or GEO 431/GEO 531, GEO 432/GEO 532, or one of the following courses that also fulfill a Global Miami Plan requirement:

MPF Natural Science

Code	Title	Credit Hours
BIO 101	Biotechnology: Coming of Age in the 21st Century	3
BIO 115	Biological Concepts: Ecology, Evolution, Genetics, and Diversity (Lab)	4
BIO 116	Biological Concepts: Structure, Function, Cellular, and Molecular Biology (Lab)	4
BIO 121	Environmental Biology	3
BIO 126	Evolution: Just a theory?	3
BIO 131	Plants, Humanity, and Environment	3
BIO 155	Field Botany (Lab)	3
BIO 161	Principles of Human Physiology (Lab)	4
BIO 171	Human Anatomy and Physiology (Lab)	4
BIO 176	Ecology of North America	3
BIO 181	Medicinal and Therapeutic Plants	3
BIO 191	Plant Biology (Lab)	4
MBI 111	Microorganisms and Human Disease	3
MBI 115	Biological Concepts: Ecology, Evolution, Genetics, and Diversity (Lab)	4
MBI 116	Biological Concepts: Structure, Function, Cellular and Molecular Biology (Lab)	4
MBI 121	The Microbial World	3
MBI 123	Experimenting with Microbes (Lab)	1
MBI 131	Community Health Perspectives	3
MBI 143	Parasitology and Mycology Labs (Lab)	1
MBI 161	Elementary Medical Microbiology (Lab)	4

Physical Science

Complete three hours including any course in CHM, GLG, PHY, or GEO 121, GEO 122, or one of the following courses that also fulfill a Global Miami Plan requirement:

MPF Natural Science

Code	Title	Credit Hours
CHM 111	Chemistry in Modern Society	3
CHM 111L	Chemistry in Modern Society Laboratory (Lab)	1
CHM 131	Chemistry of Life Processes (Lab)	4
CHM 141	College Chemistry	3
CHM 141R	College Chemistry	4
CHM 144	College Chemistry Laboratory (Lab)	2
GEO 121	Earth's Physical Environment (Lab)	4
GEO 122	Geographic Perspectives on the Environment	3
GLG 111	The Dynamic Earth	3
GLG 115L	Understanding the Earth (Lab)	1
GLG 121	Environmental Geology	3

GLG 141	Geology of U.S. National Parks	3
PHY 101	Physics and Society	3
PHY 103	Concepts in Physics Laboratory (Lab)	1
PHY 111	Astronomy and Space Physics	3
PHY 118	Introduction to Atmospheric Science	3
PHY 121	Energy and Environment	3
PHY 131	Physics for Music	3
PHY 141	Physics in Sports	3
PHY 161	Physics for the Life Sciences with Laboratory I (Lab)	4
PHY 162	Physics for the Life Sciences with Laboratory II (Lab)	4
PHY 191	General Physics with Laboratory I (Lab)	5
PHY 192	General Physics with Laboratory II (Lab)	5

MBI 116	Biological Concepts: Structure, Function, Cellular and Molecular Biology	4
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CAS-E Formal Reasoning (3 hrs)

Three semester hours, designated as CAS-E in the Courses of Instruction section of this Bulletin, including MTH 222, 251, PHL 373 or one of the following courses, which also fulfills the Global Miami Plan Foundation V requirement.

MPF Mathematics, Formal Reasoning, & Technology

Code	Title	Credit Hours
ATH 219	Introduction to Linguistics	3
ENG 219	Introduction to Linguistics	3
GER 219	Introduction to Linguistics	3
MTH 119	Quantitative Reasoning	4
MTH 121	Finite Mathematical Models	3
MTH 151	Calculus I	5
MTH 249	Calculus II	5
PHL 273	Formal Logic	4
STA 261	Statistics	4

CAS-QL Quantitative Literacy (3 hrs)

Complete three semester hours; for comprehensive list refer to The College Requirement page in this Bulletin. The courses below can be used in other GMP foundations, excluding Miami Plan Foundation V

MPF Social Science

Code	Title	Credit Hours
POL 241	American Political System	3

MPF Natural Science

Code	Title	Credit Hours
BIO 116	Biological Concepts: Structure, Function, Cellular, and Molecular Biology	4
BIO 161	Principles of Human Physiology	4
CHM 111	Chemistry in Modern Society	3
GLG 111	The Dynamic Earth	3
GLG 121	Environmental Geology	3
GLG 141	Geology of U.S. National Parks	3