

MOTR CORE 42 COURSES

The Missouri Higher Education Core Transfer Curriculum is a recommended lower-division core curriculum of forty-two semester credit hours intended to facilitate student transfer among Missouri's public institutions of higher education. It is a statewide general education course of study intended to ensure that all graduates possess a common core of college-level skills and knowledge.

CORE 42 is comprised of dozens of courses distributed across five knowledge areas - Social & Behavioral Sciences; Written and Oral Communications; Natural Sciences; Mathematical Sciences; Humanities and Fine Arts. The courses in each knowledge area are designated with a Missouri Transfer (MOTR) course number, which guarantees the one-to-one transfer among all Missouri public institutions of higher education.

Missouri Western MOTR courses are identified within the course descriptions below. More information on the CORE 42 program can be found here (<https://www.missouriwestern.edu/registrar/core42>).

A

ART 100 Introduction to Art Credits: 3

Typically Offered: Fall, Spring, Summer.

Course Description: General background in the history, philosophy, principles, and techniques of the visual arts.

CORE 42: MOTR ARTS 100; Art Appreciation



ART 110 Beginning Drawing I Credits: 3

Typically Offered: Fall, Spring.

Course Description: Elementary drawing with the figure, still life, landscape, and perspective in various media. Six studio hours.

CORE 42: MOTR PERF 105D; Studio Art - Introduction to Drawing



ART 205 Survey of Art History I Credits: 3

Typically Offered: Fall, Spring.

Course Description: A global art survey covering visual culture in Europe, Asia, Africa, and the Americas before c. 1400.

CORE 42: MOTR ARTS 101; Art History I



ART 255 Survey of Art History II Credits: 3

Typically Offered: Fall, Spring.

Course Description: A global art survey covering visual culture in Europe, Asia, Africa, and the Americas after c. 1400. **Prerequisite(s):** ART 205.

CORE 42: MOTR ARTS 102; Art History II



B

BIO 101 Principles of Biology Credits: 4

Typically Offered: Fall, Spring.

Course Description: Introductory course on the principles of living phenomena intended for students not major in biology. Meets General Studies Category 2, Line 1 requirement. Three hours lecture, two hours lab.

CORE 42: MOTR BIOL 100L; Essentials in Biology with Lab



BIO 105 Principles of Organismal Biology Credits: 4

Typically Offered: Fall, Spring.

Course Description: Examines basic concepts and principles of evolutionary biology, behavior, ecology, physiology and morphology at the organismal level. Three hours lecture, three hours lab per week. LAS Writing. **Prerequisite(s):** ACT math score of 22 or higher or a score of 70 or higher on the MWSU Math Placement Exam or the equivalent, ACT English score of 18 or higher or the equivalent, and ACT reading score of 18 or higher or the equivalent.

CORE 42: MOTR BIOL 150L; Biology w/Lab



BIO 106 Principles of Cell Biology Credits: 4

Typically Offered: Fall, Spring.

Course Description: This introductory biology course examines the structure and function of animal and plant cells, interactions between cells, intra- and intercellular signaling mechanisms and basic cellular biochemistry. Within the above context, students are also introduced to basic concepts of molecular biology and development. Three hours lecture, three hours lab. LAS Writing. **Prerequisite(s):** ACT math score of 22 or higher or a score of 70 or higher on the MWSU Math Placement Exam or the equivalent, ACT English score of 18 or higher or the equivalent, and ACT reading score of 18 or higher or the equivalent.

CORE 42: MOTR BIOL 150L; Biology with Lab



BIO 250 Anatomy and Physiology Credits: 5

Typically Offered: Fall, Spring, Summer.

Course Description: Concepts of human structure and function and relationships of these concepts to cells, tissues, organs and systems. Four hours lecture, two hours lab. **Prerequisite(s):** A grade of C or better in either BIO 101 or BIO 106.

CORE 42: LIFS 150L; Human Biology with Lab



C

CHE 101 Introductory Chemistry Credits: 4

Typically Offered: Fall, Spring.

Course Description: Chemistry for liberal arts and sciences students; meets the minimum physical science requirement. Three hours lecture, two hours lab.

CORE 42: MOTR CHEM 100L; Essentials in Chemistry with Lab



CHE 104 Fundamentals of Chemistry Credits: 5**Typically Offered:** Fall, Spring.**Course Description:** A survey of chemistry with special emphasis on solution and biochemistry; for students majoring in scientific and technological fields such as nursing. Four hours lecture, two hours lab.**CORE 42:** MOTR CHEM 100L; Essentials in Chemistry with Lab**CHE 111 General Chemistry I Credits: 5****Typically Offered:** Fall, Spring.**Course Description:** Basic concepts of chemistry: atomic theory and periodic system, chemical calculations, oxidation-reduction, states of matter, theory of chemical bonding, atomic structures. Four hours lecture, three hours lab. **Prerequisite(s):** Mat ACT of 22 or higher or a score of 70 or higher on the MWSU Math Placement Exam or the equivalent.**CORE 42:** MOTR CHEM 150L; Chemistry with Lab**CHI 100 Elementary Chinese I Credits: 3****Typically Offered:** Fall, Spring.**Course Description:** Beginning study of Chinese language and culture, including speaking, listening, reading and writing. Focus on topics of personal interest and activities.**CORE 42:** MOTR LANG 105; Foreign Language I**CHI 101 Elementary Chinese II Credits: 3****Typically Offered:** Fall, Spring.**Course Description:** Continued study of Chinese language and culture, including speaking, listening, reading and writing. Focus on topics of personal interest and activities. Students must earn a minimum grade of C in order to continue in sequenced language courses. **Prerequisite(s):** A grade of C or higher in CHI 100.**CORE 42:** MOTR LANG 106; Foreign Language II**COM 104 Oral Communication Credits: 3****Typically Offered:** Fall, Spring, Summer.**Course Description:** Principles of speech as applied in meaningful participation in society.**CORE 42:** MOTR COMM 110; Fundamentals of Public Speaking**COM 305 Interpersonal Communication Credits: 3****Typically Offered:** Fall.**Course Description:** Analyzes communication interaction in relatively unstructured, person-to-person settings with application of interpersonal communication concepts to resolving problems emerging from human interactions. LAS Writing. **Prerequisite(s):** COM 104.**CORE 42:** MOTR COMM 120; Interpersonal Communication**COM 324 Small Group Communication Credits: 3****Typically Offered:** Spring.**Course Description:** Group roles, leadership styles, group structure, thought processes, and consensus methods; application of concepts to communication interaction in task and social group settings. A Service Learning component of the course requires out of class community service volunteer hours for completion of the assignment.**Prerequisite(s):** COM 104.**CORE 42:** MOTR COMM 125; Small Group Communication**COM 334 Argumentation and Debate Credits: 3****Typically Offered:** Departmental Discretion.**Course Description:** Philosophical and theoretical foundations of logic and argumentation to the persuasive process; experience in preparation and presentation through debate and discussion formats. **Prerequisite(s):** COM 104.**CORE 42:** MOTR COMM 220; Argumentation and Debate**E****ECO 101 Current Issues in the Economy Credits: 3****Typically Offered:** Fall, Spring, Summer.**Course Description:** Introductory course covering current economic events and economic problems facing society. Topics include health care, the environment, crime and poverty, globalization, and recession and growth in the national economy. As the economic aspects of these issues are explored, the student is introduced to the methods used by economists to analyze problems and to develop possible solutions.**CORE 42:** MOTR ECON 100; Introduction to Economics**ECO 260 Principles of Macroeconomics Credits: 3****Typically Offered:** Fall, Spring, Summer.**Course Description:** Introduction to basic principles of economics with emphasis on the analysis of unemployment, GDP, inflation, and public debt; discusses fiscal and monetary theories and public policies.**CORE 42:** MOTR ECON 101; Introduction to Macroeconomics**ECO 261 Principles of Microeconomics Credits: 3****Typically Offered:** Fall, Spring, Summer.**Course Description:** Introduction to economic fundamentals with emphasis on supply and demand analysis, factor markets, different market structures, international economics, and various economic problems.**CORE 42:** MOTR ECON 101; Introduction to Microeconomics

ENG 104 College Writing and Rhetoric Credits: 3**Typically Offered:** Fall, Spring, Summer.**Course Description:** Instruction in reading and writing; emphasizes expository prose. Fulfills first half of the general studies requirement in English composition. **Prerequisite(s):** A grade of C or higher in RDG 095, or an ACT Reading score of 18 or higher, or a passing score on the Accuplacer test. A grade of C or higher in ENG 100, or an ACT English score of 18 or higher, or a passing score on the Writing Placement Examination. (See class schedule for information about placement exams)**CORE 42:** MOTR ENGL 100; Composition I**ENG 108 College Writing and Research Credits: 3****Typically Offered:** Fall, Spring, Summer.**Course Description:** Instruction in college-level research and rhetoric; continued practice in college-level writing. Fulfills second half of the General Studies requirement in English composition. **Prerequisite(s):** A grade of C or higher in ENG 104.**CORE 42:** MOTR ENGL 200; Composition II**ENG 210 Approaches to Literature Credits: 3****Typically Offered:** Fall, Spring, Summer.**Course Description:** A General Studies course emphasizing ways of reading and writing about multiple genres of literature. Various thematic approaches may be offered. Course may not be repeated for credit.**CORE 42:** MOTR LITR 100; Introduction to Literature**ESC 111 Physical Geology Credits: 4****Typically Offered:** Fall, Spring.**Course Description:** Survey of geologic materials and processes, including quantitative and qualitative methods for studying geology. Three hours lecture, two hours lab.**CORE 42:** MOTR GEOL 100L; Geology with Lab**F****FRE 100 Elementary French I Credits: 3****Typically Offered:** Fall.**Course Description:** Beginning study of French language and culture, including speaking, listening, reading and writing. Focus on topics of personal interest and activities, using primarily the present tense. Students whose high school transcripts show three or more years of French (with a grade of C or higher, and within three years of the semester in question) should attempt the placement exam because they will receive audit credit only should they enroll in this course.**CORE 42:** MOTR LANG 101; French I**FRE 101 Elementary French II Credits: 3****Typically Offered:** Spring.**Course Description:** Continued study of French language and culture, including speaking, listening, reading and writing. Focus on topics of personal interest and activities. Students must earn a minimum grade of C in order to continue in sequenced languages courses. **Prerequisite(s):** A grade of C or higher in FRE 100.**CORE 42:** MOTR LANG 102; French II**G****GEO 100 World Geography Credits: 3****Typically Offered:** Fall, Spring.**Course Description:** A systematic and regional analysis of the world's diverse cultural realms emphasizing the five themes of geography (location, place, interaction of people and the physical environment, movement, and region).**CORE 42:** MOTR GEOG 101; World Regional Geography**GEO 160 Physical Geography Credits: 4****Typically Offered:** Departmental Discretion.**Course Description:** Analysis of Earth's physical systems, Earth-Sun relationships, weather and climate, soils and landforms, fluvial processes, global vegetation, exercises involving data collection, aerial photography and map interpretation, and data analysis. Three hours lecture and two hours lab.**CORE 42:** MOTR GEOG 100L; Physical Geography with Lab**GER 100 Elementary German I Credits: 3****Typically Offered:** Fall.**Course Description:** Beginning study of German language and culture, including speaking, listening, reading and writing. Focus on topics of personal interest and activities, using primarily the present tense. Students whose high school transcripts show three or more years of German (with a grade of C or higher, and within three years of the semester in question) should attempt the placement exam because they will receive audit credit only should they enroll in this course.**CORE 42:** MOTR LANG 105; Foreign Language I**GER 101 Elementary German II Credits: 3****Typically Offered:** Spring.**Course Description:** Continued study of German language and culture, including speaking, listening, reading and writing. Focus on topics of personal interest and activities. Students must earn a minimum grade of C in order to continue in sequenced languages courses. **Prerequisite(s):** A grade of C or higher in GER 100.**CORE 42:** MOTR LANG 106; Foreign Language II

H

HIS 120 Modern World History Credits: 3

Typically Offered: Departmental Discretion.

Course Description: A survey of the political, social, and economic history of the world (Europe, Africa, Middle East, India, Far East, and Latin America) from 1815 to the present.

CORE 42: MOTR HIST 202; World History II



HIS 140 American History to 1865 Credits: 3

Typically Offered: Fall, Spring.

Course Description: The discovery of America to the end of the Civil War; colonial America, the Revolution, national development, sectionalism, and the Civil War.

CORE 42: MOTR HIST 101; American History I



HIS 150 American History since 1865 Credits: 3

Typically Offered: Fall, Spring.

Course Description: Continuation of HIS 140. Reconstruction, industrialization, urbanization, emergence as a world power, progressivism, World War I, the New Deal, World War II, and postwar America.

CORE 42: MOTR HIST 102; American History II



HIS 200 Ancient and Medieval Civilization Credits: 3

Typically Offered: Fall, Spring.

Course Description: The western world from antiquity to the fifteenth century; the emergence of civilization in the Nile and Tigris-Euphrates valleys; the political, social, economic, and intellectual contributions of Greece, Rome, and medieval Europe.

CORE 42: MOTR WCIV 101; Western Civilization I



HIS 210 Early Modern Civilization Credits: 3

Typically Offered: Fall, Spring.

Course Description: The western world from 1500 to 1815; national states, the geographical revolution, the founding of European overseas empires, the Reformation, the emergence of constitutional governments, the Scientific Revolution, and the American and French Revolutions.

CORE 42: MOTR WCIV 102; Western Civilization II



HIS 230 Modern Europe: 1789 to the Present Credits: 3

Typically Offered: Fall, Spring.

Course Description: The French Revolution and Napoleonic periods; reaction, nationalism, and revolution; rise of socialism; imperialism; World War I; the Russian Revolutions and Soviet communism; the rise of fascism; Hitler, Stalin, and World War II; the Holocaust; the postwar bi-polar world order; the bloc system.

CORE 42: MOTR WCIV 102; Western Civilization II



HUM 203 Humanities: Ancient and Medieval Credits: 3

Typically Offered: Fall, Spring.

Course Description: The social and intellectual history of humanity as reflected by literature, art, music, drama and discourse from the classical period to the Renaissance.

CORE 42: MOTR WCIV 101; Western Civilization I



HUM 204 Humanities: Middle Ages to the French Revolution Credits: 3

Typically Offered: Fall, Spring.

Course Description: The social and intellectual history of humanity as reflected by literature, art, music, drama and discourse from the Middle Ages to the French Revolution.

CORE 42: WCIV 102; Western Civilization II



HUM 205 Humanities: American Revolution to the Present Credits: 3

Typically Offered: Fall, Spring.

Course Description: The social and intellectual history of humanity as reflected by literature, art, music, drama and discourse from the American Revolution to the present.

CORE 42: WCIV 102; Western Civilization II



M

MAT 110 Contemporary Problem Solving Credits: 3

Typically Offered: Fall, Spring.

Course Description: Mathematics for solving selected real-world problems using elementary graph theory, data analysis, techniques of decision making, and the mathematics of finance. Same as MAT 110E.

Prerequisite(s): ACT math subscore of at least 22 or a sufficient score on the math placement exam or departmental approval.

CORE 42: MOTR MATH 120; Mathematical Reasoning and Modeling



MAT 110E Contemporary Problem Solving Credits: 4

Typically Offered: Fall, Spring.

Course Description: Mathematics for solving selected real-world problems using elementary graph theory, data analysis, techniques of decision making, and the mathematics of finance. Same as MAT 110. Three hours lecture, two hours lab. **Prerequisite(s):** ACT math subscore of at least 18 or a sufficient score on the math placement exam or successful completion of MAT 083 or departmental approval.

CORE 42: MOTR MATH 120; Mathematical Reasoning and Modeling



MAT 111 Introductory Statistics Credits: 3

Typically Offered: Fall, Spring.

Course Description: A general introduction to statistics for students whose academic interests involve the analysis and interpretation of data. Emphasis is placed on the development of statistical thinking and the use of technology. Topics include graphical and numerical methods for summarizing univariate and bivariate data, basic probability, discrete and continuous probability distributions, linear regression, characteristics of good study designs, confidence intervals and hypothesis testing. Same as MAT 111E. **Prerequisite(s):** ACT math subscore of at least 22 or a sufficient score on the math placement exam or departmental approval.
CORE 42: MOTR MATH 110; Statistical Reasoning



MAT 111E Introductory Statistics Credits: 4

Typically Offered: Fall, Spring.

Course Description: A general introduction to statistics for students whose academic interests involve the analysis and interpretation of data. Emphasis is placed on the development of statistical thinking and the use of technology. Topics include graphical and numerical methods for summarizing univariate and bivariate data, basic probability, discrete and continuous probability distributions, linear regression, characteristics of good study designs, confidence intervals and hypothesis testing. Same as MAT 111. Three hours lecture, two hours lab. **Prerequisite(s):** ACT math subscore of at least 18 or a sufficient score on the math placement exam or successful completion of MAT 083 or departmental approval.
CORE 42: MOTR MATH 110; Statistical Reasoning



MAT 112 Finite Mathematics Credits: 3

Typically Offered: Fall, Spring.

Course Description: Linear and quadratic equations, graphs, and functions including exponential and logarithmic functions; mathematics of finance, annuities, sinking funds and mortgages; linear programming; counting methods, probability, expectation; descriptive statistics. Not open to the student with credit in MAT 165 or MAT 167. **Prerequisite(s):** ACT math subscore of at least 22 or a grade of C or higher in MAT 110E or a sufficient score on the math placement exam or departmental approval.
CORE 42: MOTR MATH 120; Mathematical Reasoning and Modeling



MAT 116 College Algebra Credits: 3

Typically Offered: Fall, Spring.

Course Description: Linear, quadratic, and miscellaneous equations and inequalities; relations and functions including polynomial, exponential, and logarithmic functions; graphing; systems of equations; and matrices. Not open to the student with credit in MAT 165 or MAT 167. **Prerequisite(s):** ACT math subscore of at least 22 or a grade of C or higher in MAT 110E or a sufficient score on the math placement exam or departmental approval.
CORE 42: MOTR MATH 130; Pre-Calculus Algebra



MAT 147 Applied Calculus Credits: 5

Typically Offered: Fall.

Course Description: An applied course in techniques of differentiation and integration; applications primarily from the technological fields; analytic geometry, functions, differential and integral calculus.
Prerequisite(s): ACT math score of 25 or higher or a grade of C or higher in MAT 116.

CORE 42: MOTR MATH OTHER; Mathematical Sciences



MAT 165 Calculus with Analytic Geometry I: Differentiation Credits: 3

Typically Offered: Fall.

Course Description: Includes the study of limits and continuity of real functions, the derivative of algebraic and trigonometric functions, and applications of the derivative. Not open to the student with credit in MAT 167. **Prerequisite(s):** ACT math score of 25 or higher, or a grade of C or higher in MAT 116 and a grade of C or higher or concurrent enrollment in MAT 119.

CORE 42: MOTR MATH OTHER; Mathematical Sciences



MAT 167 Calculus with Analytic Geometry I Credits: 5

Typically Offered: Fall, Spring.

Course Description: The first of three sequenced courses in calculus. Includes the study of limits and continuity of real functions, the derivative and its applications, the integral, and the integration and differentiation of trigonometric, exponential and logarithmic functions. Not open to the student with credit in MAT 166. **Prerequisite(s):** ACT math score of 25 or higher or a grade of C or higher in MAT 116 and MAT 119.

CORE 42: MOTR MATH OTHER; Mathematical Sciences



MUS 101 Perspectives in Music Credits: 3

Typically Offered: Fall, Spring, Summer.

Course Description: Music materials, forms, historical-social development of composers and compositions. Various themes may be pursued. May not be repeated for credit.

CORE 42: MOTR MUSC 100; Music Appreciation



MUS 103 Fundamentals of Music Credits: 2

Typically Offered: Departmental Discretion.

Course Description: Materials of music through triads and simple double and triple rhythm; includes music reading/aural recognition. Meets three hours per week.

CORE 42: MOTR MUSC 101; Music Fundamentals



MUS 140 Community Chorus Credits: 1

Typically Offered: Fall, Spring.

Course Description: Group singing of various styles of music literature. Meets two hours per week.

CORE 42: MOTR PERF 102C; Music Performance - Choir



MUS 142 University Men's Chorus Credits: 1**Typically Offered:** Departmental Discretion.**Course Description:** A non-auditioned vocal ensemble open to all men that focuses on healthy development of the singing voice. Music performed includes selections from all stylistic genres. Number of concerts may vary by semester. Students are financially responsible for appropriate concert attire. Three hours per week.**CORE 42:** MOTR PERF 102C; Music Performance - Choir**MUS 143 University Women's Chorus Credits: 1****Typically Offered:** Departmental Discretion.**Course Description:** A non-auditioned vocal ensemble open to all women that focuses on healthy development of the singing voice. Music performed includes selections from all stylistic genres. Number of concerts may vary by semester. Students are financially responsible for appropriate concert attire. Three hours per week.**CORE 42:** MOTR PERF 102C; Music Performance - Choir**MUS 145 Marching Band Credits: 1****Typically Offered:** Fall.**Course Description:** Performance of marching maneuvers. Meets six hours per week. May be repeated for credit. Rehearsals commence about one week before beginning of semester. Meets General Studies Category 5, Line 2 physical activity course. **Prerequisite(s):** Departmental approval.**CORE 42:** MOTR PERF 102B; Music Performance - Band**MUS 146 Concert Band Credits: 1****Typically Offered:** Spring.**Course Description:** Basic concert band literature with public performance; laboratory for conducting and arranging students; experience on secondary instruments. Meets three hours per week.**CORE 42:** MOTR PERF 102B; Music Performance - Band**MUS 310 History of Music: Ancient to Baroque Credits: 2****Typically Offered:** Spring.**Course Description:** Musical styles, techniques, composers, and culture from ancient music to the 1700s. **Prerequisite(s):** MUS 217.**CORE 42:** MOTR MUSC 103; Music History I**MUS 311 History of Music: Classical to Modern Credits: 2****Typically Offered:** Fall.**Course Description:** Musical styles, techniques, composers, and culture from the 1700s to the early 1900s. **Prerequisite(s):** MUS 217.**CORE 42:** MOTR MUSC 104; Music History II**MUS 346 Orchestra Credits: 1****Typically Offered:** Fall, Spring.**Course Description:** Performance of selected standard orchestral literature. Meets three hours per week. **Prerequisite(s):** Departmental approval.**CORE 42:** MOTR PERF 102O; Music Performance - Orchestra**MUS 415 Jazz History Credits: 2****Typically Offered:** Departmental Discretion.**Course Description:** Overview of the history and evolution of jazz, from its humble beginnings the late 1800's to New Orleans in the early 1900's to bebop and beyond. This course will introduce the primary performers and the literature of the various development periods. **Prerequisite(s):** MUS 101, MUS 355, and MUS 356.**CORE 42:** MOTR MUSC 100J; Music Appreciation Jazz**P****PHL 210 Introduction to Philosophy Credits: 3****Typically Offered:** Fall, Spring.**Course Description:** Survey of the origins and development of philosophical thought focusing on texts selected from the classical, medieval, modern and contemporary periods.**CORE 42:** MOTR PHIL 100; Introduction to Philosophy**PHL 219 Reasoning and Argumentation Credits: 3****Typically Offered:** Fall.**Course Description:** Introduction to the skills necessary to construct and evaluate deductive and inductive arguments for use in a variety of disciplines, professions and everyday life. Topics include identifying valid forms of arguments, formal and informal methods of evaluation and the use of these skills when reading and writing. **Prerequisite(s):** ENG 104.**CORE 42:** MOTR PHIL 101; Introduction to Logic**PHL 220 Symbolic Logic Credits: 3****Typically Offered:** Departmental Discretion.**Course Description:** Introduction to a symbolic language for representing the structure of valid arguments. Introduces formal rules for demonstrating the validity of arguments. Covers natural deduction for sentential and predicate calculus. **Prerequisite(s):** ACT math score of 20 or higher or the equivalent.**CORE 42:** MOTR PHIL 101; Introduction to Logic**PHL 230 Ethics Credits: 3****Typically Offered:** Fall, Spring.**Course Description:** An introduction to ethical theory focusing on the major traditions of Western philosophical ethics and their practical application to contemporary moral issues.**CORE 42:** MOTR PHIL 102; Introduction to Ethics

PHY 101 Physics for the Liberal Arts Credits: 4**Typically Offered:** Fall.**Course Description:** A comprehensive, descriptive study of the scientific principles of the physical world, including the history of science, motion, energy, cosmology, geophysics, etc. Designed to provide students without significant previous coursework in the physical sciences with a solid introduction to the terminology and concepts required for further study. Three hours lecture, two hours lab. Not open to the student with credit in PHY 107, PHY 110, or PHY 210.**CORE 42:** MOTR PHYS 100L; Essentials in Physics with Lab**PHY 104 Introduction to Astronomy Credits: 4****Typically Offered:** Fall, Spring.**Course Description:** Basic course in astronomy, mostly descriptive in nature; solar system, stellar astronomy, structure of galaxy and universe. Three hours lecture and two hours lab.**CORE 42:** MOTR ASTR 100L; Astronomy with Lab**PHY 107 Introduction to Physics Credits: 4****Typically Offered:** Spring.**Course Description:** A comprehensive, quantitative study of the concepts and laws of physics. Designed for students majoring in fields other than the physical sciences, mathematics, or engineering. Topics include motion, gravity, electromagnetism, atomic and nuclear physics, optics, and relativity. Three hours of lecture, two hours lab. Not open to the student with credit in PHY 110 or PHY 210. **Prerequisite(s):** ACT math score of 20 or higher or the equivalent.**CORE 42:** MOTR PHYS 110L; Essentials in Physical Sciences with Lab**PHY 110 College Physics I Credits: 4****Typically Offered:** Fall, Spring.**Course Description:** Classical treatment of mechanics, energy, waves, and heat. Three hours lecture, three hours lab. Not open to students with credit in PHY 210. **Prerequisite(s):** MAT 116.**CORE 42:** MOTR PHYS 150L; Physics I with Lab**PHY 210 University Physics I Credits: 5****Typically Offered:** Fall.**Course Description:** This course is a comprehensive study of mechanics, relativity, oscillations, waves, and thermodynamics involving simulations, applications, and experimentation. Course assignments require the student to have a thorough knowledge of college algebra, trigonometry, and calculus. Three hours lecture, two hours computer aided instruction lab, two hours experimentation lab. **Prerequisite(s):** MAT 166 or MAT 167.**CORE 42:** MOTR PHYS 200L; Advanced Physics I with Lab**PSC 101 American National Government Credits: 3****Typically Offered:** Fall, Spring, Summer.**Course Description:** The American constitutional system, including Congress, the presidency, and the courts; and public issues.**CORE 42:** MOTR POSC 101; American Government**PSC 200 International Politics Credits: 3****Typically Offered:** Spring.**Course Description:** The nature of politics at the international level; the national state system and state capabilities; foreign policy objectives, formulation, and execution; international organizations and alignments; contemporary world tensions. LAS International/ Intercultural. **Prerequisite(s):** PSC 101.**CORE 42:** MOTR POSC 201; International Relations**PSC 210 Comparative Political Systems Credits: 3****Typically Offered:** Fall.**Course Description:** Structural-functional analysis of major European political systems; comparison and contrast among such systems and with others of contemporary significance. **Prerequisite(s):** PSC 101.**CORE 42:** MOTR POSC 202; Introduction to Comparative Politics**PSY 101 General Psychology Credits: 3****Typically Offered:** Fall, Spring, Summer.**Course Description:** General information about psychology in everyday life, designed to correct misconceptions and to give the student a better understanding of self and others.**CORE 42:** MOTR PSYC 100; General Psychology**PSY 240 Life-Span Developmental Psychology Credits: 3****Typically Offered:** Spring.**Course Description:** The cognitive, personality, emotional, social, and physical changes that occur from conception through old age. This course is intended primarily for majors in fields which require a developmental psychology overview of the life span. Credit for this course is not applicable toward a psychology major. **Prerequisite(s):** PSY 101.**CORE 42:** MOTR PSYC 200; Life Span Human Development

R

REL 250 Religions of East Asia and Oceania Credits: 3**Typically Offered:** Spring (even-numbered years).**Course Description:** Survey of major and minor religions with relevant historical and cultural elements, focusing primarily on religious traditions with origins in East Asia and Oceania.**CORE 42:** MOTR RELG 100; World Religion

REL 251 Religions of the West Credits: 3**Typically Offered:** Fall (even-numbered years).**Course Description:** Survey of major and minor religions with relevant historical and cultural elements, focusing primarily on religious traditions with origins in West Asia, Europe, and the Americas.**CORE 42:** MOTR RELG 100; World Religion**REL 252 Religions of South Asia and Africa Credits: 3****Typically Offered:** Fall (odd-numbered years).**Course Description:** Survey of major and minor religions with relevant historical and cultural elements, focusing primarily on religious traditions with origins in South Asia and Africa.**CORE 42:** MOTR RELG 100; World Religion**S****SOC 110 Introduction to Sociology Credits: 3****Typically Offered:** Fall, Spring, Summer.**Course Description:** An introduction to the discipline of sociology; basic sociological concepts and theories; a survey of the major topics such as culture, society, social interaction, groups, crime, race/ethnicity, class, gender, the family, education, religion, medicine, economy, politics. Cross-cultural comparisons.**CORE 42:** MOTR SOCI 101; General Sociology**SOC 120 General Anthropology Credits: 3****Typically Offered:** Fall.**Course Description:** The bio-cultural evolution of the human species, with emphasis on culture as adaptation for survival; comparison of human non-literate societies, stressing cultural variability, cultural relativity, and similarities between cultures.**CORE 42:** MOTR ANTH 101; General Anthropology**SPA 100 Elementary Spanish I Credits: 3****Typically Offered:** Fall.**Course Description:** Beginning study of Spanish language and culture, including speaking, listening, reading and writing. Focus on topics of personal interest and activities, using primarily the present tense. Students whose high school transcripts show three or more years of Spanish (with a grade of C or higher, and within three years of the semester in question) should attempt the placement exam because they will receive audit credit only should they enroll in this course.**CORE 42:** MOTR LANG 103; Spanish I**SPA 101 Elementary Spanish II Credits: 3****Typically Offered:** Spring.**Course Description:** Continued study of Spanish language and culture, including speaking, listening, reading and writing. Focus on topics of personal interest and activities. Students must earn a minimum grade of C in order to continue in sequenced languages courses. **Prerequisite(s):** A grade of C or higher in SPA 100.**CORE 42:** MOTR LANG 104; Spanish II**T****THR 113 Introduction to Theatre Credits: 3****Typically Offered:** Fall, Spring, Summer.**Course Description:** The contributions made by directors, actors, designers, technicians, and playwrights to modern dramatic productions. Participation in a production as performer, member of stage or construction crew, or members of production committee may be required.**CORE 42:** MOTR THEA 100A; Theatre Appreciation