International Credit Program at Elmira College
Fall 2025 Course Listing as of 09/18/2025

Course Code	Course Title	Credits	Course Description
ANTH 1105	Foundations of Biological Anthropology	3	This course is a comprehensive exploration of the fascinating field that examines the biological and evolutionary aspects of human beings, providing a solid foundation in the scientific study of human origins, evolution, genetics, and the relationship between biology and culture. Students will gain a deeper understanding of the biological factors that have shaped human diversity, behavior, and adaptation.
ARTH 2143	Eighteenth-Century European Art	3	Eighteenth-century European art embodies a period of profound cultural, social, and political transformation. Through the close examination of painting, sculpture, architecture, and decorative arts, this course explores the aesthetic developments of the century, from the splendor of Rococo to the intellectual rigor of Neoclassicism. Students will analyze how art was created, the conditions of artistic production, and the shifting roles of artists within religious, political, and aristocratic patronage systems. Topics include artistic techniques and materials, the circulation of objects and ideas, and the intersection of art with Enlightenment thought, colonialism, and emerging modernity.
ARTH 3360	Digital Printing	4	The advancements in digital technology have revolutionized the printing industry, leading to multi-technology integration. This course aims to enhance students' knowledge and skills in various digital printing technologies, enabling them to select the most appropriate technology based on the nature of the work. Through theoretical study and practical application, including computer labs, students will gain the knowledge and skills needed to excel in the modern digital printing landscape.
ARTH 3440	Operations Management In Printing Industry	3	This course is designed to provide students with an in-depth understanding of operations and process management within the printing industry. It encompasses a broad array of subjects essential for overseeing the production and workflow in printing establishments. Students will explore the detailedworkings of printing operations of the industry, starting from the preliminary job preparation phase through to the ultimate distribution of printed goods. The syllabus highlights the significance of achieving efficiency and accuracy at each stage of the process, ensuring that students are fully prepared to address the distinctive challenges inherent in the printing industry
ARTH 4300	Contemporary Chinese Popular Culture	3	This course explores contemporary Chinese literature and popular culture from the end of the Mao era to the present. Students will study fiction, poetry, and essays that reflect China ' s social transformations in the context of reform, opening, and globalization. Special emphasis will be placed on how literature interacts with popular culture, including film, visual media, music, and the rise of urban youth culture.
BCHM 3153	Protein Biochemistry Structure and Functions	3	This course provides an in-depth exploration of protein structure and its relationship to function. Students will learn about the fundamental principles underlying enzyme kinetics and the various factors that influence enzyme activity. The course will also cover the mechanisms by which enzymes catalyze biochemical reactions and the regulation of enzyme activity in cellular processes. Additionally, students will be introduced to the field of protein engineering and its applications in modifying and designing proteins with desired properties.
BIOL 2753	Exploration to General Microbiology	4	General Microbiology provides a comprehensive exploration of the principles and diversity of microorganisms. The course covers fundamental aspects of microbial biology, including their characteristics, classification, physiology, genetics,clinical microbiology, and an introduction to differentiation. Students will gain a profound understanding of the roles microorganisms play in various environments, industries, and their significance in biological sciences.
BIOL 3250	Developmental Biology and Physiology	4	This course comprehensively explores the principles of development and comparative physiology. It enables students to deeply study the intricate processes of organism growth, development, and the physiological mechanisms maintaining life, fostering a holistic understanding.
BIOL 3302	Molecular Genetics and Evolution	4	This course is designed to provide students with an exploration of the chromosomal and molecular basis of gene transmission and function. It covers strategies for constructing genetic and physical maps of genes and genomes, as well as methods for isolating specific genes. The course also examines regulatory mechanisms for gene expression in both prokaryotic and eukaryotic organisms through various examples. Additionally, it introduces key concepts in genetic analysis, including principles of heredity, mutation, and recombination. Students will gain hands-on experience through laboratory exercises, reinforcing their understanding of theoretical concepts. By integrating lectures, discussions, and practical applications, the course aims to equip students with a comprehensive understanding of molecular genetics. Students are expected to have a foundational background in biology to fully engage with and apply the concepts discussed in the course.

BIOL 3900	Immunology	4	This course explores how immune cells and their functions coordinate defense mechanisms against pathogens, while also examining the immune system's role in autoimmune disorders, allergic reactions, and cancer. Students will develop a foundational understanding of immunological processes, including their cellular and molecular mechanisms.
BUSI 2212	Professional Business Writing	3	This comprehensive course is designed to equip students with the essential skills needed to communicate effectively within the dynamic and diverse environments of organizations, spanning corporations, government agencies, and non-profit organizations. The course focuses on developing students' proficiency in written communication, a critical aspect of professional success in various career paths that demand substantial interaction within and outside organizations.
COMM 1080	Introduction to Public Speaking	3	This course is designed to develop students' skills in public speaking and to provide a comprehensive overview of the theories and practices that underlie effective communication. The content will be covered include: theory, practice, analysis, and ethics of public speaking. Students will learn how to analyze their audience and tailor their messages accordingly, how to organize their thoughts effectively, and how to do rhetorical choice and use various delivery techniques to engage and persuade their listeners.
COMM 3360	Audio Storytelling & Podcasting	3	This course introduces students to the craft of creating compelling audio stories, drawing inspiration from public radio programs and narrative podcasts. Students will learn to conceive, research, write, and produce engaging stories for audio platforms. Emphasis is placed on conversational writing, in-depth journalistic reporting, and long-form storytelling. Students will acquire skills in interviewing, story mapping, remote and field recording, multi-track editing, mixing, and final production for broadcast or podcast distribution. The course balances theory and practice, guiding students through each stage of production-from pitch to polished piece.
COMM 3430	Digital Games and Society	3	Digital games have become a powerful and influential medium that extends far beyond entertainment. This course examines the complex relationship between games and society, exploring how games shape — and are shaped by — culture, psychology, identity, and technology. Students will critically engage with research and debates surrounding both the positive and negative impacts of gaming on individuals and communities.
COMM 3512	Interview and Communicati-on	3	This course provides an in-depth examination of interviewing as a structured, purposeful form of interpersonal communication. Using Interviewing: Principles and Practices by Charles Stewart and William Cash as the core text, students will develop the ability to design, conduct, and evaluate interviews in diverse contexts, including informational, survey, recruitment, employment, performance review, persuasive, counseling, and health care settings. Emphasis is placed on mastering questioning strategies, structuring interactions for maximum effectiveness, adapting to relational and cultural variables, and applying ethical principles throughout the interview process. Students will engage in case analyses, role-plays, and applied projects to translate theoretical concepts into professional-level interviewing skills.
COMM 4018	Media Effects	3	This course provides an advanced exploration of media effects, drawing on theoretical frameworks and empirical research to examine how media messages and technologies influence individuals and society. Students will critically analyze major theories such as cultivation, framing, priming, uses and gratifications, and social cognitive theory. The course also investigates media's impact on politics, health, marketing, identity, and emerging technologies, while considering both short-term and long-term effects. By the end of the course, students will develop the ability to evaluate, compare, and apply theories of media effects to contemporary issues in communication research.
COMP 1001	Information Technologies	3	Information Technologies explores the essential concepts and applications of modern computing systems and digital tools that support both individual productivity and organizational operations. The course emphasizes practical skills in using personal software tools such as spreadsheets and image editors, understanding fundamental programming techniques, and developing websites. It also investigates broader technology themes, including computer hardware and software architecture, database management, computer networks, e-commerce systems, and cybersecurity principles such as cryptography and secure communication. By combining foundational knowledge with hands-on practice, students gain a comprehensive understanding of how information technologies shape contemporary life and business.

COMP 2036	Object Oriented Programming	3	This course serves as an introduction introduction to the principles and practices of object-oriented programming (OOP) using Python as the primary language. Students will explore the foundational concepts of OOP such as classes, objects, encapsulation, inheritance, and polymorphism. The course emphasizes problem-solving through software design and implementation, and introduces real-world applications of OOP including modularity, reusability, and abstraction. Learners will develop both conceptual understanding and practical coding skills, enabling them to build efficient, maintainable, and scalable applications.
COMP 2073	Digital System	3	This course covers the principles of digital design, including Boolean algebra, logic gates, sequential and combinational circuits, and memory systems. Students will learn to design and analyze digital systems using Verilog, and explore advanced topics like FPGAs, ASICs, and programmable logic devices. Hands-on practice and real-world applications will help students gain a comprehensive understanding of digital circuit design.
COMP 2290	Introduction to Scientific Programming with Python	4	This course introduces students to computational thinking and scientific programming using Python. Students will learn how to implement mathematical formulas, manipulate data structures, use libraries such as NumPy and SciPy, and visualize scientific data. The course emphasizes programming as a tool for solving problems in the natural and social sciences, focusing on simulation, modeling, and data analysis. By the end, students will be able to design, implement, and test scientific programs in Python, with a brief introduction to R for statistical computing.
COMP 3125	Software Engineering	3	This course provides an in-depth exploration of both object-oriented and traditional software engineering methodologies, building upon the foundational analysis and design concepts previously introduced. It introduces students to the principles and practices of object-oriented programming (OOP) using C++. Emphasizing key OOP concepts such as encapsulation, inheritance, and polymorphism, the course provides a strong foundation in C++ syntax, structures, and libraries. Students will develop problem-solving skills through practical exercises, labs, and programming projects, enabling them to design and implement efficient, reusable, and maintainable software.
COMP 3202	Data Communication and Computer Networks	4	This course provides a comprehensive introduction to data communications and networking principles, protocols, and technologies. It covers the fundamental aspects of networking, layered network architectures, link layer error and flow control mechanisms, transmission media, local area network (LAN) Technologies, switching technologies, routing algorithms, and network security. The course emphasizes both theoretical concepts and practical applications. (Laboratory)
COMP 3960	Systems Programming	4	This course provides a comprehensive introduction to systems-level programming in the C language, emphasizing both fundamental and advanced programming concepts in a Unix environment. Students begin by mastering C syntax, data types, control structures, and formatted input/output. Through hands-on computer labs, they progressively learn about arrays, functions, pointers, strings, and preprocessor directives. The course transitions into the design and organization of larger programs using structures, unions, and enumerations, and explores advanced pointer techniques, low-level memory manipulation, and program modularization. Students will also gain familiarity with the Unix system interface, standard C libraries, and best practices for program design and debugging. Throughout the course, emphasis is placed on understanding how C programs are built and executed, writing efficient and maintainable code, and using system-level featu es for performance and reliability. Regular lab sessions reinforce learning and provide practical experience in building, testing, and troubleshooting C programs in a professional development environment.
COMP 4220	Database Management	3	This course introduces students to the theory, design, development, and management of relational databases. Focusing on practical skills and conceptual understanding, the course will enable students to manage relational databases effectively in various environments. Students will learn to design, implement, and maintain databases to meet organizational needs, optimize performance, and ensure data integrity and security. Topics will cover fundamental principles of database systems, relational database management systems (RDBMS), and advanced database management techniques.

COMP 4255	Pattern Recognition and Machine Learning	4	This course delves into the fundamental principles of pattern recognition and machine learning, offering a comprehensive exploration of both theoretical concepts and practical applications. Students will delve into supervised and unsupervised learning techniques, gaining insights into regression, classification, and clustering algorithms. Through rigorous mathematical analysis and hands-on implementation, students will develop a solid understanding of algorithmic mechanisms and their implications in real-world scenarios. Additionally, the course covers advanced topics including ensemble methods, deep learning architectures, and Bayesian inference, empowering students to tackle complex data analysis tasks with confidence. Combining theoretical knowledge with practical skills through projects and assignments, students will be adept at using machine learning techniques to extract meaningful patterns and insights from diverse data sets, with a focus on application in R.
COMP 4520	Introduction to Neural Networks	3	This course surveys fundamental methods and techniques in neural networks. Students will explore single- and multilayer perceptrons, radial-basis function networks, support vector machines, stochastic and deep networks, recurrent and dynamic networks. Applications in decision systems, nonlinear control, speech processing, and vision are explored, emphasizing how neural networks address practical engineering and scientific problems.
COMP 4780	Interaction Design and Technology	4	This course introduces students to the principles, processes, and methods of interaction design. Students will explore cognitive, social, and emotional aspects of user interaction, data-driven design, and evaluation techniques. Theory is integrated with hands-on labs to provide practical experience in designing, prototyping, and evaluating interactive systems.
COMP 4800	Algorithmic Machine Learning	3	This course provides a comprehensive introduction to the fundamental concepts and methods in artificial intelligence (AI) and machine learning(ML). Students will explore a range of AI techniques and algorithms that are essential for understanding and developing intelligent systems. Topics include machine learning, data analysis, supervised and unsupervised learning, neural networks, decision trees, clustering, matrix factorization, Reinforcement Learning and more. The course is designed to equip students with the theoretical knowledge and practical skills needed to apply AI and algorithms to solve real-world problems.
COMP 4801	Prototyping in Interaction Design	4	This course immerses students in the theory and practice of prototyping for both digital and physical products. Through a blend of conceptual understanding and hands-on exercises, students will explore prototypes as mindsets, investigate fidelity levels, navigate prototyping processes, and apply best practices across digital and electronic contexts. Emphasis is placed on testing prototypes with real users, integrating feedback, and synthesizing multimodal design workflows. The course culminates in a capstone experience bringing together physical and digital prototyping through a real-world case scenario.
COMP 4802	Database Management Systems	4	This course provides a comprehensive exploration of database management systems (DBMS), emphasizing the principles, design, implementation, and administration of modern database systems. Students will gain an understanding of the core components of a DBMS, including data models, query languages, transaction management, and storage structures. The course also covers advanced topics such as distributed and parallel databases, object-oriented and XML-based databases, as well as emerging applications in data analytics and data warehousing. By the end of the course, students will be equipped with both theoretical knowledge and practical skills to design, implement, and manage robust database solutions for real-world applications.
ECON 1060	Introduction to Microeconomics	3	This course offers students a fundamental understanding of microeconomic principles. It covers supply - demand, consumer behavior, production, and more. Through lectures, readings, discussions, and exercises, students gain analytical tools to grasp microeconomic concepts and real - world economic issues.
ECON 1080	Introduction to Macroeconomics	3	This course comprehensively imparts principles, concepts, and analytical tools of the broader economic system. Covering aggregate demand, national income, and business cycles, it combines theory, real - world cases, and critical thinking to introduce key macroeconomic factors influencing national and global economies.
ECON 2048	Money and Banking	3	The course is designed to provide students with an overview of the field of money and banking and its significance in the economy. It explores the intricate relationship between money, financial markets, and the macroeconomy. Main topics include money, interest rates, the stock market, banking industry, financial markets, financial Regulation and monetary policy in the economy, etc. At the end of the course, students will understand better the role of money and the financial market in our economy.

ECON 2563	Introduction to Statistics and Economics	3	This course introduces students to the statistical approaches required for data analysis in business and economics settings. Students will learn descriptive statistics, probability theory, hypothesis testing, and regression analysis. Students will learn data gathering, organization, analysis, and presentation skills via a combination of lectures and hands-on exercises. The emphasis will be on providing students with the skills required to make informed decisions, solve real-world issues, and critically assess data-driven arguments in business and economic contexts.
ECON 3040	Intermediate Macroeconomics I	3	Intermediate Macroeconomics I delves into the core concepts and models essential for understanding the functioning of modern economies. The course covers the short-run, medium-run, and long-run behavior of aggregate economies, focusing on output, unemployment, inflation, and growth. It introduces students to analytical tools and macroeconomic frameworks to evaluate economic performance, policy decisions, and global economic interconnections. Real-world applications are emphasized to foster a comprehensive understanding of macroeconomic theories and their implications.
ECON 3120	Industrial Organization	3	This course provides an introductory exploration of strategic behaviors exhibited by firms operating within imperfectly competitive markets. Topics covered encompass various aspects such as market concentration, mergers, entry deterrence, product differentiation, advertising, and regulation. Additionally, the course delves into the theory of industrial organization, emphasizing the analysis of strategic interactions among market participants in scenarios with limited competition. Drawing upon principles from Microeconomics and Game Theory, students will examine the behavior of profit-maximizing firms, exploring market structures and competitive strategies. The curriculum includes a comprehensive review of firm theory, analysis of monopolistic conduct, and game theoretic methods to study oligopolistic behavior across different competitive environments. Real-world applications are integrated throughout the course, providing insights into industry performance and regulatory considerations.
ECON 3515	Introductory Health Economics	3	This course provides an introduction to the field of health economics, focusing on the economic analysis of health and healthcare systems. Students will explore the key concepts, theories, and methods used in health economics to understand the behavior of healthcare providers, consumers, and policymakers. Topics covered include the demand and supply of healthcare, healthcare financing, insurance, cost-effectiveness analysis, and healthcare policy evaluation. Additionally, this course delves into alternative payment systems, risk management, fairness in healthcare distribution, and the impact of imperfect information on health economics. Special attention will be given to examining global health disparities and evaluating health economic concepts within the context of low and middle-income countries.
ECON 3595	Microeconomic Analysis III	3	This course develops the core analytical tools of microeconomics with an emphasis on how individual choices shape market outcomes. Students will study household demand and firm supply, the role of costs and technology in production, and how markets allocate resources under varying conditions of competition. Attention is also given to the role of uncertainty in decision-making and the implications for pricing and welfare. Applications drawn from contemporary economic issues illustrate how microeconomic models can be used to interpret and evaluate real-world behavior and policy.
ECON 3769	Applied Microeconometrics	3	This course provides a rigorous introduction to applied microeconometric techniques with a focus on cross-sectional and panel data analysis. Students will learn both the theoretical underpinnings and practical applications of econometric methods used in modern empirical research. Topics include estimation and inference in linear and nonlinear models, instrumental variables, generalized method of moments, maximum likelihood estimation, limited dependent variable models, and methods for evaluating treatment effects. Emphasis will be placed on understanding assumptions, recognizing limitations, and applying econometric tools to real-world microeconomic data.
ENGL 1020	ESL Reading and Writing	3	This course is designed for intermediate to advanced non-native English speakers who wish to strengthen their academic writing and reading skills. Emphasis is placed on developing strategies for reading academic texts critically and producing clear, organized, and well-supported written work. Students will engage in a variety of reading and writing tasks that will enable them to analyze, summarize, synthesize, and respond to texts. By the end of the course, students will be prepared to participate successfully in academic reading and writing tasks across university disciplines.

ENGL 1140	College Writing	3	The College Writing is designed to introduce students to various writing genres and help them develop effective communication skills through written expression. The course will focus on the writing process, emphasizing key aspects of academic writing and expository prose. Students will engage in both creative and analytical writing tasks, developing their abilities in crafting clear, coherent, and well-organized texts. Topics covered will include sentence-level issues, paragraph structure, rhetorical strategies, organization, style, and form. By the end of the course, students will be equipped with the skills needed to write effectively in academic and professional settings.
ENGL 1251	Rhetoric and Composition	3	This course introduces students to rhetorical concepts, teaching them to apply these principles in crafting diverse genres of writing tailored to specific rhetorical contexts. Through iterative revision, students refine their drafts, editing their work to achieve polished texts, and engaging in reflective analysis of their writing process. Additionally, students practice reading complex texts and utilizing information technologies.
ENGL 1351	Technical Writing	3	This course will equip you with the skills to create instructive, informative, and persuasive documents with clear and attainable objectives. Technical writing demands precision, conciseness, and organization, particularly when conveying complex information. The chosen style, encompassing document layout, vocabulary, sentence structure, paragraph organization, and visual elements, is influenced by the document's purpose and target audience. Consequently, this course will instruct you in analyzing writing contexts and generating efficient, reader-centered documents through effective and streamlined processes.
ENGL 3050	Advanced Writing Workshop	3	This course provides advanced instruction and practice in writing processes, rhetorical strategies, and stylistic techniques. Students will explore how writing functions in academic, professional, and public contexts and examine how writers adapt texts to specific audiences, purposes, and rhetorical situations. Through intensive reading, writing, peer review, and revision, students will strengthen their analytical, rhetorical, and stylistic skills. The course also emphasizes collaboration, research-based writing, and reflection on literacy development, while offering opportunities to practice multiple non-fiction genres, including narrative, analysis, explanation, critique, and argument
ENGL 3058	Rhetoric and Writing Mastery	3	This course introduces students to the foundations, historical development, and contemporary applications of rhetorical theory. Beginning with the origins of rhetoric in classical antiquity, students will explore how rhetorical traditions evolved through the Middle Ages, the Renaissance, and into the modern era. Particular attention will be given to how rhetorical theory has been shaped by philosophical, political, and cultural contexts, as well as how it continues to inform communication, persuasion, and public discourse today. Through critical readings, comparative analyses, and applied assignments, students will develop a deep understanding of rhetoric as both an art and a field of inquiry.
FILM 2100	Introduction to Film Studies	3	This course provides an introduction to the study of film, focusing on the fundamental techniques, vocabulary, and methods of film analysis. Students will explore the aesthetics, forms, styles, and techniques of cinema, learning how to critically engage with film as both an art form and a cultural text. Key areas of study include narrative structure, mise-en-sc è ne, cinematography, editing, sound, and genre theory, along with an examination of influential filmmakers and film movements. Through screenings, discussions, and written assignments, students will develop analytical skills and a deeper understanding of how films convey meaning.
HIST 2021	Introduction U.S. History to 1876	3	This course presents the political, social, economic, and cultural history of the United States from the beginning of the colonial period to the end of reconstruction in 1876. Exploring topics such as the colonial period, revolution, confederacy and constitution, the Civil War and reconstruction, students will examine the fundamental events and ideas that shaped the nation and its people during this critical period. Students gain a comprehensive understanding of the United States history to 1876.
MARK 2423	Marketing Analytics and Metrics	3	This course integrates economic theory and econometrics to provide students with a comprehensive understanding of marketing strategies and consumer behavior. Emphasizing a multifaceted approach, the course delves into various aspects such as industry structure, historical perspectives, integrated brand promotion, market segmentation, optimal product mix, and effective message placement.
MATH 1526	Introduction to Calculus II	4	Calculus I is an introductory course in calculus, designed to provide students with a solid foundation in differential and integral calculus. The course focuses on the fundamental concepts and techniques of calculus and their applications to solve various mathematical problems. This course serves as a prerequisite for higher-level mathematics and science courses.

MATH 2015	Introduction to Calculus II	3	MATH 2015 is the second course in the calculus sequence. It builds upon the concepts covered in MATH 1526 (Introduction to Calculus I) and delves deeper into integration techniques, applications of integrals, sequences, series, and more. The course aims to develop students' understanding of calculus and its applications in various field.
MATH 3017	Mathematics For Economic Analysis	3	This course is designed to provide students with an advanced understanding of mathematical techniques essential for the field of economics. It integrates rigorous mathematical concepts with economic theory, emphasizing the application of quantitative methods such as differential and integral calculus, linear algebra, and matrix algebra to solve economic problems. The curriculum covers a range of topics from geometric sequences and exponential functions in finance to the application of calculus in profit maximization and utility maximization.
MATH 3420	Modern Abstract Algebra	3	This course delves into the study of groups, rings, and fields, which are fundamental algebraic structures, and investigates their properties, operations, and applications. It offers a deep understanding of algebraic concepts beyond elementary algebra. Students will develop a solid understanding of algebraic systems and their applications in diverse mathematical contexts. Course topics include groups, group homo-morphisms， cyclic groups, cosets, Lagrange's theorem, normal subgroups, introduction to rings, ring homomorphisms and more.
MATH 3500	Applied Machine Learning	3	This course introduces students to a wide range of machine learning techniques and tools used in data analysis, predictive modeling, and pattern recognition. The course covers a comprehensive range of topics, such as multivariate linear and multiple regressions, k-nearest neighbors and bootstrap. And it also introduces some typical Statistical Learning methods, including naive Bayes, cross-validation, tree-based methods and so on. Through a combination of theoretical concepts and practical applications, students will gain a solid foundation in machine learning methods.
MGMT 3400	Decision Making in Organizations	3	This course examines how individuals and groups make decisions within organizational contexts, with a focus on the psychological and behavioral processes that shape judgment. Drawing on research in behavioral economics, cognitive psychology, and organizational behavior, students will explore heuristics, biases, framing effects, escalation of commitment, ethics, negotiation, and strategies for improving decision quality. Emphasis is placed on understanding the systematic errors that affect managerial decision making and developing tools to enhance rational, fair, and ethical choices in complex organizational environments.
MGMT 3600	Sustainable Business Strategy	3	This course explores how businesses can align profitability with environmental and social responsibility. Students will examine the drivers of sustainable business, including climate change, resource scarcity, social inequality, and regulatory pressures. The course emphasizes strategic frameworks that allow firms to create long-term value while meeting stakeholder demands. Case studies, simulations, and applied projects will guide students in understanding both the challenges and opportunities of embedding sustainability into corporate strategy.
MUSC 2800	Music, Peace, and Social Change	3	his course explores the ways music and musicians affect social change and peace. It combines interdisciplinary study, engagement with artists and activists, research on historical and contemporary case studies, and the creation of original music-and-peace projects. Students will deepen their understanding of conflict and reconciliation while practicing music as a vehicle for empathy, dialogue, and community.
PHYS 1536	Introductory Mechanics	4	This course provides an introduction to the fundamental concepts of mechanics, covering the dynamics of particles and rigid bodies using vectors and calculus. Students will explore topics such as conservation of energy and momentum, as well as kinetic theory. These concepts serve as the cornerstone for understanding various principles in the physical sciences and engineering disciplines.
PSYC 3252	Introduction to Cognition	3	This course explores the fundamental theories, research, and applications related to cognitive development from infancy through adulthood. Topics include perception, attention, memory, language acquisition, problem-solving, executive function, and the influence of culture and environment on cognitive growth. Emphasis is placed on contemporary research findings and their practical implications for education, parenting, and cognitive enhancement strategies.
PSYC 3505	Children's Thinking	3	This course explores how children think, learn, and develop across childhood. It examines major theoretical frameworks, including Piaget ' s stage theory, information-processing perspectives, and sociocultural approaches, alongside key domains of development such as perception, language, memory, and problem solving. Students will investigate how children acquire academic skills, construct concepts, and build social understanding, as well as the challenges that remain in the field. The course emphasizes critical evaluation of research evidence and the application of theory to real-world contexts in education and child development.

SOCI 3777	Gendering Asian America	3	This course examines the cultural politics of gender and sexuality in the making of Asian America through a historical and interdisciplinary lens. Students will trace how migration, exclusion, war, and globalization shaped Asian American identities, communities, and cultural expressions. Particular attention will be paid to how race, gender, and sexuality intersect in the regulation of Asian bodies, the negotiation of kinship and intimacy, the experiences of labor and displacement, and the articulation of resistance and activism. Through historical narratives, feminist and queer critiques, and analysis of literature and media, students will explore how Asian/American encounters illuminate broader struggles for justice, belonging, and citizenship.
SOCI 4815	Social Work Practice With Families	3	Focusing on the family as a dynamic and interconnected system, this course explores theories, practices, and intervention strategies relevant to social work with diverse family structures. It examines family roles, rules, relationships, communication patterns, and the influence of cultural, economic, and psychosocial factors on family functioning. Students will learn to assess family systems and apply evidence-based approaches to support families in managing life challenges, mental health issues, intergenerational conflict, and transitions such as divorce or migration. Emphasis is placed on ethical, culturally sensitive, and strengths-based social work practice with families across the life course.
STAT 1100	Introduction to Statistics	3	This course is an introduction to statistics, focusing on fundamental concepts and techniques foranalyzing and interpreting data. Topics covered include descriptive statistics, probability, probability distributions, statistical inferences, and various statistical analyses. Emphasis will be placed on applying statistical concepts to real-world problems and developing critical thinking skills.
STAT 3575	Data Science Through Statistical Reasoning	3	Understanding modern data requires more than raw computation—it demands the ability to reason statistically, frame relevant questions, and translate between data and conclusions. This course develops foundational skills in statistical reasoning and computational methods for analyzing, visualizing, and modeling data. Students will explore how to approach data problems from a scientific perspective, integrating real-world case studies and computational workflows using the R programming language. Emphasis is placed on reproducible research, effective communication of results, and critical thinking about data-driven claims.