

Keweenaw Bay Ojibwa Community College
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ART (AR)

AR101 Drawing - 3 credits

Introduction to the fundamentals of drawing, including the use of form, line, shape, value, texture, and composition to create a coherent visual statement. (*Art Elective*)

AR102 Drawing II - 3 credits

A studio course exploring drawing with continued emphasis on descriptive, expressive, and conceptual approaches. Students will further develop the ability to see and interpret a variety of subjects while using diverse materials and techniques. Course work will facilitate a dialogue in which students will employ critical analysis to broaden their understanding of drawing as a discipline and the fundamentals of artistic expression. Drawing from still-life, landscape, and life models from observation. Color theory, linear perspective, pictorial composition, figure/ground relationships, visual perception, spatial concepts, and critical thinking skills will all be highlighted. This studio course builds upon the skills learned in Drawing I, attention will be on further media experimentation and the development of a personal style. (*Art Elective*)

AR103 Art Appreciation - 4 credits

Survey of visual arts through study of the social contexts of art, aspects of form, possible intentions of the artist, and theoretical underpinnings of artistic activity. (*Art & Humanities Elective*)

AR105 Ojibwa Beadwork - 3 credits

Hands-on exploration of beading techniques used by the Ojibwa people. Materials will be provided to complete assigned projects. (*Anishinaabe Awareness*) (*Art Elective*)

AR106 Ojibwa Basket-making - 3 credits

Hands-on exploration of Ojibwa basket making techniques, including identification and location of Black Ash trees and cutting, stripping, and pounding methods for making ribbons. Individual baskets completed. (*Anishinaabe Awareness*) (*Art Elective*)

AR107 Ojibwa Garments - 3 credits

Hands-on exploration of various styles and materials for clothing and adornment used by Ojibwa people. Individual projects completed.

Prerequisite: AR105. (*Anishinaabe Awareness*) (*Art Elective*)

AR110 Introduction to Anishinaabe Art - 4 credits

This course introduces students to traditional and contemporary Anishinaabe Art. Students will learn various types of artforms, the influences on Anishinaabe art style, and an in-depth focus on the importance of art in the Anishinaabe culture. (*Anishinaabe Awareness*) (*Art Elective*)

AR111 Painting - 3 credits

Students will learn the basic fundamentals, materials, and techniques for painting. Working in water-based media (watercolor and acrylics) students learn techniques from direct observation, photo sources and from their imagination to produce work from a wide range of subjects. (*Art Elective*)

AR115 Ojibwa Pottery - 3 credits

Hands-on exploration of different techniques for making clay pottery. Topics include creating fire pits and kiln use. Emphasizes Ojibwa methods. (*Anishinaabe Awareness*) (*Art Elective*)

AR116 Sculpture - 3 credits

Introduction to sculptural materials, strategies and methods for creating and critiquing sculpture. Covers the elements and principles of 3-D design, the significance of sculpture historically and in contemporary art. Includes study of selected historical and contemporary sculptors, particularly Anishinaabe sculptors. (*Art Elective*)

AR117 Introduction to Photography - 3 credits

Introduction to the techniques and creative application of photography using black and white (silver gelatin) and digital materials. The history of photography, contemporary photo criticism, and the relationship and role of photography in Anishinaabe culture and communities will be covered. (*Art Elective*)

AR125 Beadwork Studio - 1 credit

Students design and create original beadwork using knowledge of traditional styles and techniques. May meet concurrently with AR105. Course may be repeated for credit. Prerequisite: C or better in AR105 and instructor permission. (*Anishinaabe Awareness*) (*Art Elective*)

AR127 Ojibwa Garments Studio - 1 credit

Students design and create original Ojibwa garments and accessories using knowledge of traditional styles and techniques. May meet concurrently with AR107. Prerequisite: C or better in AR107 and instructor permission. (*Anishinaabe Awareness*) (*Art Elective*)

AR204 Anishinaabe Art Forms - 4 credits

The course explores the various types and styles of Anishinaabe artworks. Focus will be on developing the basic knowledge of constructs/themes used by traditional makers, artists and designers working creatively in a variety of dimensions. Students will be provided with the opportunity to create art using various platforms. (*Anishinaabe Awareness*) (*Art & Humanities Elective*)

AR207 Special Topics in Art - 1-4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor's permission or course prerequisites may be required for some courses.

AR210 Anishinaabe Art Entrepreneurship - 3 credits

This course teaches how to blend entrepreneurship with Anishinaabe art while respecting Indigenous culture. Students will explore how to start, market, and maintain art businesses in and outside Anishinaabe communities. Emphasis will be placed on ethical practices, cultural preservation, and empowering Indigenous economies through art entrepreneurship. (*Anishinaabe Awareness*)

AR220 Anishinaabe Art History - 4 credits

This course explores the rich history and diverse art forms of Anishinaabe cultures. Students will learn about traditional and contemporary artworks through lectures, discussions, and visual analysis. Emphasis will be placed on understanding the spiritual, social, and political significance of Anishinaabe art within Indigenous communities and its broader impact on global artistic movements. (*Anishinaabe Awareness*) (*Art Elective*)

AR299 Research and Special Projects - 1-4 credits

Students conduct research or create projects in areas of special interest. Students must prepare written proposals including project schedules and evaluation methods with faculty mentor assistance. Each proposal must be approved by faculty from the relevant discipline and the Dean of Academic Affairs. Open only to students who have completed 12 credits with a minimum GPA of 2.5.

ANISHINAABE STUDIES (AS)**AS101 Introduction to Anishinaabe Studies - 4 credits**

Provides an overview of Anishinaabe studies and a sampling of topics explored in more depth in other Anishinaabe studies courses. Includes study in: Anishinaabe cultures, literature, history, art, education, values, worldviews, lifeways, spirituality, contemporary issues, government and politics. (*Anishinaabe Awareness*) (*Social Science Elective*)

AS102 Anishinaabe Values and Philosophy - 4 credits

Examines Anishinaabe values and worldviews, how they are expressed and how they have both remained consistent and changed from ancient through modern times. Introduces a variety of worldviews

among Native groups with an emphasis on commonalities. Weekly assignments provide practical application of basic ideals common to most Anishinaabe traditions. (*Anishinaabe Awareness*) (*Humanities Elective*)

AS104 Principles of Decolonizing - 2 credits

This course is designed to serve as an introduction to the principles of decolonization and the application of these principles to improve the quality of life for Anishinaabe people. How colonization has affected the lives of Anishinaabe people will also be examined. (*Anishinaabe Awareness*)

AS105 Decolonizing Tribal Organizations - 2 credits

This course examines how tribal organizations can implement decolonizing approaches to address oppressive colonial institutional processes, regulations, and behaviors. The goal of the course is to reform the organization so that it can implement structures and processes that are based in tribal thinking, beliefs, and values. (*Anishinaabe Awareness*)

AS200 History of Michigan Tribes - 4 credits

Survey of the history of federally recognized Indian Tribes in Michigan and the relationship between tribal, state, and federal governments. (*Anishinaabe Awareness*) (*Social Science Elective*)

AS201 History of North American Anishinaabe - 4 credits

Survey of North American Anishinaabe from pre-glacial era to the present. Explores the rise and decline of major North American civilizations and their cultures. (*Anishinaabe Awareness*) (*Social Science Elective*)

AS202 Pow Wow Planning & Management - 3 credits

This course is designed to provide the knowledge and skills required to plan, organize and manage a pow-wow. This course also examines the origins and meanings of the pow-wow, pow-wow dance styles, dance regalia, types of songs and traditions. (*Anishinaabe Awareness*)

AS207 Special Topics in Anishinaabe Studies - 1-4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor's permission or course prerequisites may be required for some courses.

AS210 Traditional Storytelling - 4 credits

Study of Anishinaabe stories and the different roles storytelling and storytellers play in Native communities. Practice in the traditional storytelling skills of speaking, listening, and comprehension. (*Anishinaabe Awareness*) (*Humanities Elective*)

AS215 Contemporary Anishinaabe Issues - 4 credits

Exploration of achievements, issues, problems, and events in Indian Country today. Encompasses international, national, regional, and local perspectives. (*Anishinaabe Awareness*) (*Social Science Elective*)

AS225 Anishinaabe Education - 4 credits

Examination of the history of Indian education. Topics include Anishinaabe educational practices, boarding schools and their impact, identified best practices, and current issues in Native education today. (*Anishinaabe Awareness*) (*Social Science Elective*)

AS232 Tribal Government - 4 credits

Examination of the changing nature of tribal governments and the evolution of tribal-federal, tribal-state, and inter-tribal relationships. (*Anishinaabe Awareness*) (*Social Science Elective*)

AS297 Capstone Seminar - 2 credits

Culmination of course work in the Anishinaabe Studies degree program. The course provides students the opportunity to conduct small-scale individual projects or expand upon projects conducted during their course work and to polish skills needed for transferring to a four-year degree program or entering the work force. Prerequisites: sophomore status, AS298, EN202.

AS298 Internship - 1-4 credits

This internship course gives the student the opportunity to grow academically, pre-professionally, personally and civically through participation in a service-learning experience. Students meet needs in the community by applying knowledge from their courses. Students complete 20 hours of service per credit, complete written journals, and meet regularly with their advisor. This is a Pass/Fail course. This course may be repeated for credit.

AS299 Research and Special Projects - 1-4 credits

Students conduct research or create projects in areas of special interest. Students must prepare written proposals including project schedules and evaluation methods with faculty mentor assistance. Each proposal must be approved by faculty from the relevant discipline and the Dean of Academic Affairs. Open only to students who have completed 12 credits with a minimum GPA of 2.5.

BIOLOGY (BI)**BI101 General Biology - 4 credits (3 lecture, 3 lab)**

Exploration of biological phenomena. Topics covered include cellular and molecular levels of organization, genetics and mechanisms of heredity in organic evolution, reproduction and development, as well as introductory concepts of taxonomy and ecology. (*Science with lab*)

BI200 Conservation Biology - 4 credits (3 lecture, 3 lab)

An interdisciplinary examination of issues related to biological diversity. Topics include population biology, biogeography, environmental ethics and policy, loss and degradation of habitat, ecological restoration, and the design, management, and stewardship of protected areas. (*Science with lab*)

BI203 Wildlife Biology and Management - 4 credits (3 lecture, 3 lab)

Introduction to the study of the evolutionary history, anatomy, physiology, behavior, and ecology of animals. Identification and conservation issues are addressed and include hands-on experiences with the KBIC Natural Resource Department. Management and assessment tools are emphasized. Prerequisite: BI101, ES110, or instructor permission. (*Science with lab*)

BI205 Fisheries Biology and Management - 4 credits (3 lecture, 3 lab)

Introduction to concepts and methodology used in aquaculture, fisheries science and management. Emphasis on terminology, techniques, and practices related to fisheries science, with particular focus on fisheries of the Great Lakes Region. Skills development pertaining to fisheries research and management dynamics, data collection, management, computation and dissemination will be a major component of this course. Students gain practical experience at the KBIC fish hatchery and in the field. Prerequisite: BI101, ES110, or instructor permission. (*Science with lab*)

BI206 Principles of Ecology - 4 credits (3 lecture, 3 lab)

Examination of the interactions that organisms have with one another and their physical environment. Students study classic ecological principles used to understand the behavior, physiology, distribution, and abundance of plants and animals. Prerequisite: BI101, ES110, or instructor permission. (*Science with lab*)

BI207 Special Topics in Biology - 1-4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor permission, course fees, or prerequisites may be required for some courses.

BI208 Stream and Lake Ecology - 4 credits (3 lecture, 3 lab)

An interdisciplinary examination of freshwater ecosystems, focusing on physical, biological, and chemical processes of streams and lakes. Lab/field activities are linked to real-world stewardship and research methodologies and objectives. Prerequisite: ES110, GS105, or instructor permission. (*Science with lab*)

BI223 Anatomy & Physiology I - 4 credits (3 lecture, 3 lab)

This course provides an overview of human anatomy and physiology using a body-systems approach. It will emphasize the inter-relationships between form and function at the gross and microscopic levels. Exploration of the structure and function of the skin, skeletal, muscular, nervous, cardiovascular, lymphatic, digestive, reproductive and endocrine systems of the human body will be performed. The course examines how the body functions and the consequences of injury and disease. The interrelationships among the various organ systems are emphasized. Prerequisite: BI101 or advisor permission. (*Science with lab*)

BI224 Anatomy & Physiology II - 4 credits (3 lecture, 3 lab)

Anatomy and Physiology II is the second part of a two-course sequence. It is a study of the structure and function of the human body including cells, tissues and organs of the following systems: endocrine, cardiovascular, respiratory, digestive, urinary, and reproductive. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. The virtual lab provides a hands-on learning experience for exploration of human system components and basic physiology. Systems to be studied include endocrine, cardiovascular, respiratory, digestive, urinary, and reproductive. Prerequisite: BI223. (*Science with lab*)

BI245 Microbiology - 4 credits (3 lecture, 3 lab)

This course introduces the basic principles of microbiology with emphasis on microorganisms impacting human health. Topics include the structure, nutrition, metabolism, reproduction, genetics, phylogeny, and ecology of prokaryotic, eukaryotic, and acellular microorganisms. Societal issues may include emerging infectious diseases, antibiotic resistance, vaccines, and infection and immune responses. Laboratory will introduce microbiological tools, techniques, and safety. (*Science with lab*). Prerequisites: MA103 or higher and BI101, CH111

BI299 Research and Special Projects - 1-4 credits

Students conduct research or create projects in areas of special interest. Students must prepare written proposals including project schedules and evaluation methods with faculty mentor assistance. Each proposal must be approved by faculty from the relevant discipline and the Dean of Academic Affairs. Open only to students who have completed 12 credits with a minimum GPA of 2.5.

BUSINESS (BS)**BS103 Personal Finance - 3 credits**

Designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Real-world topics covered will include income, money management, spending and credit, as well as saving and investing. This course will provide a foundational understanding for making informed personal financial decisions.

BS110 Introduction to Business - 3 credits

Overview of business principles. Topics include the nature of competition in national and global markets, the changing business environment, the role and importance of small business to local and national economies. Course also examines how globalization impacts business.

BS145 Business Communication - 3 credits

Introduction to the theory and practice of communication in business. Emphasizes analysis of business communication situations to plan and present effective messages in spoken, written, and multimedia forms. Examines effective communication in face-to-face and work group settings.

BS149 Business Administrative Procedures - 4 credits

Includes administrative and general business procedures for the office. Topics include efficient procedures for managing appointments, telephone calls, records processing and customer service.

BS201 Accounting I - 4 credits

Study of fundamental concepts, principles and procedures required in the practice of accounting including the accounting cycle and methods of recording, summarizing, reporting, and interpreting financial data.

BS202 Accounting II - 4 credits

Continuation of BS201. Examines special applications of accounting principles such as investments, bonds, managerial and cost accounting, reports, budgeting, cash flow calculations and the use and applications of funds statements. Prerequisite: BS201

BS204 Microcomputer Accounting - 4 credits

Introduction to computerized applications covering the accounting cycle, including chart of accounts, accounts payable, accounts receivable, payroll, and report generation.

BS207 Special Topics in Business - 1-4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor's permission or course prerequisites may be required for some courses.

BS208 Management and Supervision - 3 credits

Exploration of principles of organizational management including planning, organizing, decision making, staffing, and leadership.

BS209 Human Resource Management - 3 credits

Covers the principles and practices of productive employee relations with emphasis upon the selection, development and motivation of employees.

BS210 Marketing - 3 credits

Study of the basic marketing functions of managers including decisions made in developing both strategic and tactical marketing plans. Topics include principles of market segmentation, product development, pricing, distribution planning, and promotion.

BS211 Business Law & Ethics - 3 credits

Study of legal terminology, contracts, agencies, partnerships, corporations, property, negotiable instruments, sales and court proceedings.

BS212 Entrepreneurship - 3 credits

This practical hands-on course provides students with the skills that are essential to succeed as an entrepreneur. The fundamentals of starting a business venture including planning, licensing, tax laws and obtaining financing will be covered.

BS225 Conflict Resolution - 4 credits

This course provides a comprehensive understanding of conflict, its sources, and practical techniques for resolving conflicts constructively. (*Anishinaabe Awareness*) (*Social Science Elective*)

BS235 Leadership and Team Skills - 3 credits

Introduces students to leadership styles and traits and provides self-assessment activities for them to learn more about their leadership abilities. Provides students with reading and activities to engage them in the leadership process, as well as foster teams that work together on a class project.

BS297 Capstone Seminar - 2 credits

Culmination of course work completed throughout the Business degree program. The course provides students the opportunity to conduct small-scale individual projects or expand upon projects conducted

during their course work and to polish skills needed for transferring to a four-year degree program or entering the work force. Prerequisites: sophomore status, BS110 and EN202.

BS298 Internship - 1-4 credits

The Business internship provides students with practical work experience in the Business field under the supervision of a practicing professional or at an approved work site. Students receive one credit for every 80 hours worked in the approved site. This is a Pass/Fail course. This course may be repeated for credit.

BS299 Research and Special Projects - 1-4 credits

Students conduct research or create projects in areas of special interest. Students must prepare written proposals including project schedules and evaluation methods with faculty mentor assistance. Each proposal must be approved by faculty from the relevant discipline. Open only to students who have completed 12 credits with a minimum GPA of 2.5.

CHEMISTRY (CH)

CH111 Chemistry for Health Sciences - 4 credits (3 lecture, 3 lab)

This course introduces principles of general, organic, and biochemistry and their applications to health-related fields. The course emphasizes the chemical processes that operate within living systems, notably our bodies and their environment. Topics include measurement, physical and chemical properties of matter, chemical bonding, solutions, acids and bases, organic compounds, chemical reactions, and metabolic processes. The concepts of the course are further explored with laboratory experiments. (*Science with lab*). Prerequisite: MA103 or higher.

EARLY CHILDHOOD EDUCATION (CE)

CE107 Competencies and Best Practices in Early Childhood Programs I - 4 credits

This course focuses on child growth and development birth-5 with emphasis on planning a safe, healthy, and supportive learning environment for young children. Students will do readings, gather or explore resources, and engage in hands on activities/exercises to reinforce what they are learning so they can put theory into developmentally appropriate practice. The course will also help students begin to fulfill requirements of the CDA training process, including the study of child growth and development, safe healthy inclusive learning environments, holistic development, and becoming a professional in the field of early childhood education. This course requires sixty (60) hours of field experience.

CE108 Competencies and Best Practices in Early Childhood Programs II - 4 credits

This is the second of two courses that will prepare students for the CDA (Child Development Associate) competency exam. This course will give students resource materials, a foundation of knowledge, and hands-on experience in ways to nurture cognitive, motor, language, and creative process skills in children. The main objective is to teach students ways to advance physical and intellectual development in young children. Principles of children's growth and development will be integrated throughout the course, as will experiences in observing and recording children's behavior and progress in the areas of creative process, motor development, language, and cognitive development. Long range and daily planning will also be explored. Students will be observed working with children, will continue to work on their professional resource files and will fulfill other course requirements. This course requires sixty (60) hours of field experience. Prerequisite: CE107.

CE111 Infant and Toddler Programming - 3 credits

Overview of curriculum and care for infants and toddlers. Covers concepts of child development, knowledge of play as a curriculum, development assessment, the childcare environment and caregiver-family relations. Prerequisite: CE101 or instructor's permission.

CE115 Child Guidance - 3 credits

Examination of the basic structure of pre-school or early childhood programs, teaching social skills and the use of appropriate child guidance methods in the educational setting. Prerequisite: CE101 or instructor's permission.

CE119 CDA Preparation Seminar - 2 credits

This course provides guidance through the CDA credentialing process. Students will be prepared to apply for a CDA credential upon completion of the seminar. Prerequisite: Students must be caring for children in an early childhood setting. Course offered for Credit/No Credit only.

CE207 Special Topics in Early Childhood Education - 1-4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor's permission or course prerequisites may be required for some courses.

CE218 Creative Teaching Methods - 3 credits

Exploration of teaching methods and practices with emphasis on encouraging creative self-expression and play based learning. Students plan, implement and evaluate learning experiences that are creative, integrative and activity based. Prerequisite: CE110 or instructor's permission.

CE220 Observation and Assessment in Early Childhood Education - 3 credits

This course provides experience with the practices and tools for observation, documentation, and assessment of young children from birth through age eight. Discussion will include the use of assessment for planning continued developmental and learning experiences, as well as for appropriate classroom management and guidance strategies. The National Association for the Education of Young Children (NAEYC) guidelines for assessment purposes will be emphasized.

CE210 Creating a Trauma-Informed Classroom - 3 credits

This course will offer an in-depth look at the different types of trauma children are exposed to, and the impact these trauma events have on children today. We'll also be looking at strategies to help children in today's classrooms cope with the struggles they may face, while offering ways to support children's healing, build their resilience, and foster their compassion.

CE223 Children's Literature - 3 credits

Introduction to children's literature from various genres and cultural perspectives through language and literacy development. Helps students to gain intentional teaching methods and strategies that support language and literacy development in young children through children's literature.

CE237 Children with Special Needs - 3 credits

Introduction to serving young children with special needs in inclusive environments. Describes types and causes of developmental disabilities. Provides information needed to apply the philosophy, principles, and strategies that make inclusion work for all children.

CE275 ECE Field Practicum - 2 credits

Provides opportunity for practical experience through observation and supervised participation in early care and education setting with young children. Students will develop and implement developmentally appropriate environments and activities.

CE290 Early Childhood Program Management - 3 credits

Examination of administrative issues associated with program development and implementation. Key topics include staffing, personnel management and leadership, licensing, certification, equipment and materials, facilities design, and family and community outreach. Prerequisite: CE107, CE108 or instructor's permission.

CE297 Early Childhood Capstone - 3 credits

Culmination of coursework in Early Childhood Education. Students complete small-scale individual projects and assess the impact of their educational experiences on their development as early childhood educators. Prerequisites: CE101 and EN202.

CE299 Research and Special Projects - 1-4 credits

Students conduct research or create projects in areas of special interest. Students must prepare written proposals including project schedules and evaluation methods with faculty mentor assistance. Each

proposal must be approved by faculty from the relevant discipline and the Dean of Academic Affairs. Open only to students who have completed 12 credits with a minimum GPA of 2.5.

CRIMINAL JUSTICE (CJ)

CJ110 Introduction to Criminal Justice - 4 credits

This course is designed to introduce students to the criminal justice system and its process. Examines the inter-relationships of various agencies of the criminal justice system; police, courts, corrections, and security, and explores careers in all areas. (*Social Science*)

CJ150 Criminology - 4 credits

Introductory course that begins by examining the role of sociological circumstances such as age, race, & gender on causation & reaction to crime. The first half of this course is wrapped up with psychological theories that explain & predict criminal behavior. The second half of the course further explores how crime is defined and measured along with methods of examining criminal patterns and trends. These topics are then brought together as we examine current events within criminal justice. (*Social Science*)

CJ212 Introduction to Policing - 4 credits

Focuses on the history and development of policing and compared the various jurisdictions including Indian Country. (*Social Science*)

CJ220 Introduction to Corrections - 4 credits

Introduces students to the field of corrections, including the history of corrections, sentencing guidelines, prisons, parole, probation, prisoner rights and the role of the corrections officer. (*Social Science*)

CJ221 Roles of the Corrections Client - 4 credits

This course covers the various challenges that corrections professionals face while supervising prisoners. Students will learn about the stresses involved in the field, primarily manipulation and violence. (*Social Science*)

CJ222 Stress Management in Corrections - 4 credits

Examines how stress impacts those in the corrections profession, and how stress management decreases the ill effects of job pressures and extends and enriches the vocational lives of corrections professionals. (*Social Science*)

CJ230 Security - 4 credits

Explores the history of security and the current and emerging practices in the context of a post-9/11 world with emphasis on surveillance and Indian gaming. (*Social Science*)

CJ245 Legal Issues in Corrections - 4 credits

Examines constitutional law, law and the court process, United States court process, prisoner rights, section 42 USC 1983 and current topics. (*Social Science*)

CJ250 Contraband Control - 4 credits

Focuses on dangerous impacts of contraband in correctional facilities and the importance of communication in safety for staff, offenders and the public. (*Social Science*)

CJ251 Staff Relations in Corrections - 4 credits

Students will learn about the various types of staff dividers and their many dangers for corrections personnel. Instruction includes coping strategies, discriminatory harassment policy and a process to mitigate staff division. (*Social Science*)

CJ260 Native American Justice - 4 credits

Inspects the criminal justice systems between Indian Country and American society and the various case laws impacted Indian Country and established Tribal jurisdiction and sovereignty. (*Anishinaabe Awareness*) (*Social Science*)

CJ270 Juvenile Justice - 4 credits

Investigates correctional treatment of youth offenders and the many judicial and correctional options in attaining delinquency prevention. (*Social Science*)

ECONOMICS (EC)**EC201 Microeconomics - 4 credits**

Introduction to theoretical and practical principles of markets, prices, business decision making and consumer behavior. (*Social Science*)

EC202 Macroeconomics - 4 credits

Exploration of the relationship between the aggregate economy and various broad economic indicators. Topics include recession, economic growth rates, inflation, consumer spending and personal saving, fiscal policy, monetary policy, national, and trade deficits. (*Social Science*)

EC207 Special Topics in Economics - 1-4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor's permission or course prerequisites may be required for some courses.

EC299 Research and Special Projects - 1-4 credits

Students conduct research or create projects in areas of special interest. Students must prepare written proposals including project schedules and evaluation methods with faculty mentor assistance. Each proposal must be approved by faculty from the relevant discipline and the Dean of Academic Affairs. Open only to students who have completed 12 credits with a minimum GPA of 2.5.

ENGLISH (EN)**EN100 Expressive Writing with Reading - 4 credits**

Designed to tap into student creativity and process pedagogy, this course guides students in developing literacy both in composing and understanding texts of various kinds, including creative, academic and college texts, including linguistic and visual aspects. Attention is paid to structure and correctness of prose in its various forms.

EN102 College Composition I - 3 credits (3 lecture, 1 recitation)

Designed to improve the students' reading, writing, grammar, and analytical skills. Emphasis is on writing short essays with an introduction to research writing. Prerequisite: C or better in EN100 or placement (*Composition*)

EN106 Sharing Information & Stories Orally - 4 credits

Public Speaking is the application of communication theory and practice within the public speaking context. Emphasis is placed on audience analysis, speaker delivery, ethics of communication, cultural diversity, cultural contexts (specifically Anishinaabe philosophies), and speech organizational techniques to develop students' speaking abilities, as well as ability to effectively evaluate oral presentations. Additional emphasis given to the use of verbal and non-verbal skills to make points clear and effective, and reducing stress when speaking publicly. (*Anishinaabe Awareness*) (*Humanities Elective*) (*Communication*)

EN150 Introduction to Literature - 4 credits

Introduction to literary analysis and interpretation through readings and discussion of a wide range of prose, poetry and drama. (*Humanities Elective*)

EN202 College Composition II - 3 credits (3 lecture, 1 recitation)

Continuation of EN102. Further development of students' skills with emphasis placed on writing longer and more complex essays, reports, and other documents with critical discussion of drafts. Emphasizes use of research material, including an introduction to primary research. Prerequisite: C or better in EN102. (*Composition*)

EN207 Special Topics in English - 1-4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor's permission or course prerequisites may be required for some courses.

EN210 World Literature - 4 credits

In depth study of literature from various regions. Course may be repeated for credit with different topics. (*Humanities Elective*)

EN220 Storytelling in the Digital Age - 4 credits

Examines historical and contemporary creative works utilizing multiple media. Students will learn the basics of digital photographic manipulation to create and present original stories. (*Art and Humanities Elective*)

EN250 Anishinaabe Images in Literature and Film - 4 credits

Examination of how Anishinaabe tribes, cultures, beliefs, and individuals have been represented in film, media, and literature by both Native and non-Native writers and film makers. (*Anishinaabe Awareness*) (*Humanities Elective*)

EN255 Modern Anishinaabe Literature - 4 credits

Survey of Anishinaabe literature, twentieth century and beyond. Emphasis is placed on the Anishinaabe culture, experience, and philosophy. (*Anishinaabe Awareness*) (*Humanities Elective*)

EN260 Creative Writing - 4 credits

Introduction to the fundamentals of the different genres of creative writing. The course will explore publication options open to writers.

EN299 Research and Special Projects - 1-4 credits

Students conduct research or create projects in areas of special interest. Students must prepare written proposals including project schedules and evaluation methods with faculty mentor assistance. Each proposal must be approved by faculty from the relevant discipline and the Dean of Academic Affairs. Open only to students who have completed 12 credits with a minimum GPA of 2.5.

ENVIRONMENTAL SCIENCE (ES)**ES107 Science Issues Today - 1 credit**

Discussion-focused application of key science concepts related to current issues. Topics vary by semester, and content is appropriate for non-science majors. May be repeated for credit.

ES110 Introduction to Environmental Science - 4 credits (3 lecture, 3 lab)

An interdisciplinary overview of biological, physical, and social factors involving relationships between humans and the environment. The course includes foundational concepts in ecology, earth sciences, natural resource use and conservation, and consequences of human population growth. (*Science with lab*)

ES121 Trees of the Upper Great Lakes - 4 credits (3 lecture, 3 lab)

An examination of trees, emphasizing identification and classification. Additional topics include tree physiology, growth, reproduction, dispersal, and relationships between trees and their environment. Species of Michigan's Upper Peninsula are the focus and are examined through weekly field excursions. (*Science with lab*)

ES158 Human Geography - 4 credits

Examination of world geographic conditions such as climate, landforms, natural resources, and ecology and how they influence human culture and civilization over time. Environmental impacts of societies are a focus, including population growth, resource utilization, agriculture, industry, and political and economic systems. (*Social Science*)

ES204 Forests and Wetlands of the Upper Great Lakes - 4 credits (3 lecture, 3 lab)

Broad overview of the ecology of local forests. Students examine forest community composition, interactions between plants and other organisms, ecosystem changes across space and time, and forest hydrology and soils. Additional topics include forest management and policy, fire, invasive species, and social values associated with forests. Prerequisite: ES110, ES121, or instructor permission. (*Science with lab*)

ES207 Special Topics in Environmental Science - 1-4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor permission, course fees, or prerequisites may be required for some courses.

ES216 Sustainability - 4 credits

An interdisciplinary examination of how to meet today's societal needs without sacrificing the ability of future generations to meet their needs. Relationships between human and natural systems are the focus, with emphasis on critical current issues such as climate change, impacts to water resources, loss of biodiversity, and energy production and use. Economic, legal, and sociological concepts are examined. Prerequisite: ES110 or instructor permission. (*Social Science*)

ES217 Environmental Policy - 4 credits

An overview of environmental policy and regulatory processes in the United States. Students examine the roles of stakeholders and government regulators in the policy-making process. Case studies examine major environmental issues and policy outcomes, focusing on the concepts of risk, economics, and human values. Prerequisite: ES110 or instructor permission. (*Social Science*)

ES218 Environmental Justice and Ethics - 4 credits

An introduction to environmental justice and ethics as place-specific conflicts, practices, and consequences, with particular focus on Indigenous case studies. Using scholarship from geography, anthropology, sociology, and Indigenous studies, students critically examine the role of race, gender, colonialism, and other social differences in environmental justice and ethics issues. Prerequisite: ES110 or instructor permission. (*Humanities & Anishinaabe Awareness*)

ES219 Anishinaabe Environmental Studies - 4 credits

Exploration of human-environment relationships from an Anishinaabe perspective. Traditional cultural values and worldviews are linked to contemporary Tribal natural resource stewardship objectives. Other foundational topics include sovereignty, treaty rights, and traditional ecological knowledge. (*Humanities & Anishinaabe Awareness*)

ES295 Teaching Assistant - 1-3 credits

In this experiential learning, a student will gain instructional experience as an undergraduate teaching assistant, including planning, set-up, coaching students, and demonstrating techniques. Prerequisite: Instructor permission and a B or better grade in the course in which the student will assist. The course may be repeated for credit. Prerequisites: sophomore status.

ES297 Capstone Seminar - 2 credits

Culmination of course work in the Environmental Science degree program. The course provides students the opportunity to conduct small-scale individual research projects or expand upon projects conducted during their internship experiences. The course emphasizes application of the scientific method, data analysis techniques, technical and scientific writing, and oral presentation. In addition, students will assess the impact of their educational experiences on their ecological and cultural perspectives, and on the development of their critical thinking skills. Prerequisite: sophomore status; Pre or co-requisites: EN202, ES298, MA201.

ES298 Internship - 1-4 credits

The internship course requires that a student engage in practical work experience in the Environmental Science field under the supervision of a practicing professional. Students receive one credit for every 80

hours worked in the approved site. This is a Pass/Fail course. This course may be repeated for credit. Open only to students who have completed 12 credits with a minimum GPA of 2.5.

ES299 Research and Special Projects - 1-4 credits

Students conduct research or create projects in areas of special interest under the supervision of a faculty mentor. This is a Pass/Fail course. This course may be repeated for credit. Open only to students who have completed 12 credits with a minimum GPA of 2.5.

FOODS AND NUTRITION (FN)

FN101 Introduction to Culinary Skills with ServSafe - 2 credits (1 lecture, 2 lab)

This is a hands-on cooking class, with lecture and lab sessions where basic cooking skills will be learned and performed in an institutional setting. This course will provide the student with the skills to prepare for entry-level employment in the food service industry or improve their personal home cooking skills. Certification via Serv-Safe will be offered upon course completion.

FN102 Advanced Culinary Skills - 2 credits (1 lecture, 2 lab)

Continuation of Basic Cooking Methods. Hands-on cooking class where basic cooking skills will be learned, built upon, and performed in an institutional setting. Provides the student with skills for entry-level employment in the food service industry or improve their cooking skills in the home. Focuses on meat, pork, poultry and fish; yeast breads; and elements of restaurant bookkeeping. Prerequisite: FN102 or instructor's permission.

FN130 Baking and Pastry I - 2 credits (1 lecture, 2 lab)

This course provides students an introduction into baking and pastry. It provides experience in baking and pastry sufficient to qualify students for an entry level hospitality position. The course will also provide foundations to aid the home cook in creating at home. Required for entry into Baking and Pastry II.

FN140 Food Safety and Sanitation - 3 credits

This course addresses basic sanitation principles, ways to apply the principles in practical situations, and methods for training and motivating food service personnel to follow good sanitation practices. Certification via ServSafe will be offered upon course completion.

FN145 Nutrition and Sustainability - 3 credits

This course focuses on basic principles of nutrition and their relationship to health and cuisine. Current issues in sustainability are reviewed, as well as dietary guidelines and food fads. The course debunks common myths about nutrition and health. Foraging and responsible consumption of natural resources form a central theme of the course.

FN150 American Regional Cuisine - 3 credits

This course guides students through an examination of current American cuisine. It will demonstrate cooking methods through technical application and critical thinking. All twelve regions of the United States will be explored.

FN201 Local and Native Cuisine - 2 credits (1 lecture, 2 lab)

Local, Organic, Seasonal & Sustainable Cooking in the ever-changing landscape of food service including the use of local, affordable ingredients; cost versus the nutritional value of sustainable organic foodstuffs; the explosion of vegetarian and vegan cooking in local, regional and national fusion cooking, heritage and ethnic cooking; incorporating this knowledge into cooking skills. (*Anishinaabe Awareness*)

FN202 Essential Elements of Restaurant Management - 3 credits

Focuses on the leadership and management skills essential to success within food service operations. Incorporates menu planning, management development, customer service, purchasing, receiving, and storage. Familiarizes the student with the general rules of table settings and table service; covers the principles of menu development, quality customer service, catering, buffet preparation and event planning. Includes preparation techniques for buffets, special celebrations and the challenges of working with limited resources in remote and/or temporary kitchens.

FN203 Event Planning and Management - 2 credits

Explore the concepts of event planning and management while introducing the concepts of real events from a practical perspective. The class will analyze the three distinct phases of the event process, understanding the impact of economic, social, and cultural factors, have while planning an event. Students will examine the operational factors involved with the beginning, middle, end, and post event procedures and process to include the marketing, sponsorship opportunities, public relations, and promotion.

FN207 Special Topics Food and Nutrition - 1-4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor's permission or course prerequisites may be required for some courses.

FN210 Food Preservation - 3 credits

This course introduces students to food safety and food preservation. It provides students with experience in gathering as well as preserving harvested fruits, vegetables, and meats. Various preservation methods will be presented. Students will receive hands-on learning experiences to include canning, drying, and freezing.

FN220 Food Systems - 3 credits

This course provides students with an overview of food systems. Students will learn the components of food systems and the various aspects that influence food pathways from production to consumer. Students will examine challenges in the food system that impact social, environmental, and human health. This course will include a field trip component for students to connect with and view various aspects of local food system processes.

FN230 Baking and Pastry II - 2 credits (1 lecture, 2 lab)

A continuation of Baking and Pastry I, this course will prepare students for work in the baking profession or in a professional patisserie. Prerequisite: FN130

FN297 Capstone - 1 credits

Culmination of course work completed throughout the Culinary Arts certificate degree program. The course provides students the opportunity to conduct small-scale individual projects or expand upon projects conducted during their course work and to polish skills needed for continuing to a two or four-year degree program or entering the work force. Prerequisite: FN202 and sophomore status.

GENERAL EDUCATION (GE)**GE110 Career Pathways - 2 credits**

This seminar-style course is designed to provide students with insights into potential career opportunities available to them upon completion of a General Studies associate degree. In this course, students will engage with guest speakers, interactive discussions, and exploratory assignments to gain valuable knowledge about various career paths, industry trends, and the skills, tools, and resources required to succeed as future professionals in their chosen fields and how they directly benefit the tribal community.

GE295 Teaching Assistant - 1-3 credits

In this experiential learning, a student will gain instructional experience as an undergraduate teaching assistant, including planning, set-up, coaching students, and demonstrating techniques. Prerequisite: Instructor permission and a B or better grade in the course in which the student will assist. The course may be repeated for credit. Prerequisites: sophomore status.

GE297 Capstone Seminar - 1 credit

Culmination of course work in the General Education degree program. The course provides students the opportunity to map their transfer plan, portfolio development, conduct small-scale individual projects and/or expand upon projects conducted during their course work and to polish skills needed for transferring to a four-year degree program or entering the work force. Required to take in last semester.

Prerequisites: completion of EN202 and Experiential learning - either GE295, GE298, or GE299.

GE298 Internship - 1-3 credits

This internship course gives the student the opportunity to grow academically, pre-professionally, personally and civically through participation in a service-learning experience with community organizations or government agencies. Students gain practical experience under the supervision of a practicing professional or at an approved site. In this experiential learning, students must work at least 40 hours at the work site for each credit, complete written journals, and meet regularly with their advisor. This is a Pass/Fail course. This course may be repeated for credit. Prerequisites: sophomore status.

GE299 Research and Special Projects - 1-3 credits

Students conduct research, create projects, or portfolio development in areas of special interest. Students must prepare written proposals including project schedules and evaluation methods with faculty mentor assistance. In this experiential learning, each proposal must be approved by faculty from the relevant discipline and the Dean of Academic Affairs. Open only to students who have completed 12 credits with a minimum GPA of 2.5. Prerequisite: sophomore status.

GEOSCIENCE (GS)

GS105 Introduction to Earth Science - 4 credits (3 lecture, 3 lab)

This course examines the physical geography of the earth and processes related to earth systems. Plate tectonics, water resources, and human impacts on the landscape are key themes. Additional topics include geology, geologic time, geomorphology, weathering, soils, and climate. (*Science with lab*)

GS207 Special Topics in Geoscience - 1-4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor permission, course fees, or prerequisites may be required for some courses.

GS299 Research and Special Projects - 1-4 credits

Students conduct research or create projects in areas of special interest. Students must prepare written proposals including project schedules and evaluation methods with faculty mentor assistance. Each proposal must be approved by faculty from the relevant discipline and the Dean of Academic Affairs. Open only to students who have completed 12 credits with a minimum GPA of 2.5.

HEALTH INFORMATION SYSTEMS (HI)

HI100 Introduction to Health Information - 3 credits

An overview of health care delivery systems and mechanisms in the U.S. Includes the medical model of healthcare and delivery, public policy, healthcare finance and regulation, data content structures and standards, information protection, informatics, and the role of leadership.

HI105 Medical Office Procedures - 3 credits

This course provides the student with the necessary skills to work in an administrative capacity in an outpatient medical office and/or ambulatory care setting. Emphasis on medical ethics and proper record keeping will enable the student to be prepared for office management.

HI110 Introduction to Medical Coding - 3 credits

This course introduces the fundamentals of medical insurance and billing. Emphasis is placed on the medical billing cycle to include third party payers, coding concepts, and form preparation. Upon completion, students should be able to explain the life cycle of and accurately complete a medical insurance claim.

HI140 Medical Insurance Billing and Reimbursement - 3 credits

This introductory course provides a comprehensive overview of medical insurance billing and reimbursement processes. Students will learn the fundamentals of health insurance, including different types of insurance plans, billing cycles, and the procedures for submitting and managing claims. Through

practical exercises and real-world scenarios, students will develop essential skills in medical coding, understanding Explanation of Benefits (EOBs), and navigating the complexities of insurance reimbursements. Additionally, the course will cover the unique aspects of billing and reimbursement within the Indian Health Service (IHS) system. This course is designed for individuals seeking to enter the medical billing field or enhance their knowledge in healthcare administration.

HL160 ICD-10 Coding - 4 credits

This course is designed to introduce the student to the ICD-10-CM/PCS classification with considerable time spent coding diagnoses and procedures. The student will gain exposure in abstracting and indexing diagnostic and procedure codes as well as retrieving medical information for research.

HEALTH (HL)

HL100 Medical Terminology - 1 credit

Medical terminology is the study of the principles of medical word building to help the student develop the extensive medical vocabulary used in all health care occupations. Students receive a thorough base of knowledge in basic medical terminology through a study of root words, prefixes and suffixes. The study focuses on correct pronunciation, spelling and use of medical terms.

HL101 Introduction to Health Professions - 3 credits

This course will prepare students for a career in healthcare and healthcare related fields. This course is intended to introduce students to the many important concepts allowing them to explore and gain knowledge about the different fields of healthcare. This course will allow the student to start thinking like future healthcare professionals and provides students with a foundation for college success, as well as an introduction to the various health professions, resources for career planning, and the concepts of professionalism, health care ethics, cultural competence, interdisciplinary health care teams, world health issues and health care policies. **This course requires 80 hours of shadowing to be completed with a healthcare professional of your choice. This requires a background check and TB testing that will include an additional course fee. (*Social Science*)

HL102 Legal and Ethical Issues for Health Professions - 3 credits

This course will focus on the legal and ethical issues that will be faced by future healthcare professionals. It will provide a comprehensive look at current trends in the basic principles of law and ethics, including morals and values. Through providing this foundation, students will gain a better understanding of how these laws, ethics and standards are applied in the health care setting and how health care professionals comply with the ever-changing landscape of healthcare. Prerequisite: HL100. (*Social Science*)

HL105 Nursing Assistant - 6 credits

This course prepares students to provide basic personal care in various healthcare settings under the direction of nursing or medical personnel. The goal of providing personal care is to assist persons in attaining and maintaining functional independence. The course includes basic understanding of body systems, skills in bathing, hygiene measures, bed making, obtaining vital signs, cultural competence, patient's rights and therapeutic communication. Anishinaabe cultural content is foundational to provide culturally sensitive care to members of tribal communities. Concurrent enrollment in HL106 is required. Upon successful completion of HL105 and HL106, the student is eligible to complete a state registry skills and theory examination in order to become a Certified Nurse Aide. Prior to acceptance, students will be screened, including a background check, a tox screen, and a two-part TB test. Failing any portion of the screening will disqualify students from enrollment.

HL106 Nursing Assistant Clinical - 0 credits

This clinical provides supervised practice of the skills acquired in HL105. Students apply their acquired knowledge of body systems and skills in bathing, hygiene measures, bed making, obtaining vital signs, cultural competence, patients' rights, and therapeutic communication in the clinical setting and in providing culturally sensitive care to members of tribal and other diverse communities. Upon successful completion of HL105 and HL106, the student is eligible to complete a state registry skills and theory examination in order to become a Certified Nurse Aide. Concurrent enrollment in HL105 is required.

Prerequisites: Prior to acceptance, students will be screened, including a background check, a tox screen, and a two-part TB test. Failing any portion of the screening will disqualify students from enrollment.

HL150 Introduction to Human Disease - 3 credits

This course prepares learners to interpret clinical documentation that they will encounter in a variety of healthcare settings. Emphasis is placed on understanding the common disorders and diseases of each body system to include the etiology (cause), signs and symptoms, diagnostic tests and results, and medical treatments and surgical procedures.

HL201 Human Nutrition - 3 credits

The student will be introduced to the role of nutrition, exercise and health behaviors that are required to meet the ever-changing demands of providing quality nutritional care in health promotion and disease prevention for human beings across their life spans. This course emphasizes a strong foundation in the science of nutrition and a clear understanding of how to apply that knowledge in practice, recognizing the need for professionals to ensure optimal nutrition in patient care, health promotion and disease prevention across an individual's life span.

HL207 Research and Special Topics - 1-4 credits

Exploration of topics pertaining to current events in healthcare or of special interest to students. Instructor's permission or course prerequisites may be required for some courses.

HL297 Capstone Seminar - 3 credits

This course is the culmination of course work completed throughout the Health Science degree program. The course provides students the opportunity to conduct small-scale individual projects or expand upon projects conducted during their course work and to polish skills needed for transferring to a four-year degree program or entering the work force. Prerequisites: HL100, HL101, HI102, EN102, EN202, MA201 or instructor approval.

HL298 Health Science Internship - 1-4 credits

The Health Science internship provides students with practical work experience in the Healthcare field under the supervision of a practicing professional or at an approved work site. Students receive one credit for every 80 hours worked in the approved site. This is a Pass/Fail course. This course may be repeated for credit.

HEALTHCARE MANAGEMENT (HM)

HM110 Introduction to Healthcare Management - 3 credits

Explores the field of healthcare management related to the global healthcare system. Topics explored include, but are not limited to, a historical overview, theoretical foundations, and history and major characteristics of development. Addresses the application of managerial concepts and practices to healthcare organizations exploring healthcare provider types, cost, access and quality of care, and the future of health services delivery.

HM200 Healthcare Finance - 3 credits

Prepares healthcare managers for the responsibilities involved in maintaining a healthcare organization, including tribal and rural health organizations. Financial risk, insurance principles, and mechanisms for healthcare reimbursement, including Medicare, Medicaid, and other payer programs, are also explained. The course explores the financial, political, and economic aspects of universal and tribal healthcare. Prerequisite: BS201.

HM210 Healthcare Quality - 3 credits

Focuses on major quality and safety issues within healthcare organizations. Methods of assessing quality and techniques for improving quality are considered, as well as opportunities for preventing adverse events. Includes current requirements for reporting indicators of quality and pay-for-performance initiatives to reward quality. Prerequisite: HM200.

HM220 Healthcare Information Systems - 3 credits

Examines the application and use of information technology in clinical and managerial decision-making. Emphasizes information technology that supports the delivery of services, including the collection, storage, retrieval, and communication of data; information systems safeguards; ethical and legal issues; and information management that promotes patient safety and quality of care. Prerequisite: BS208 or IS110.

HM297 Healthcare Capstone - 3 credits

Provides an opportunity for students to synthesize the knowledge and skills gained from the program of study through a written research paper or project with a written report. Spring semesters. Prerequisite: Final course in curriculum. Prerequisite: HM250 or instructor permission.

HISTORY (HS)**HS110 Introduction to American Government - 4 credits**

Survey of the structure and processes of the American federal governmental system. Examination of the relationship between the federal government and Anishinaabe tribes. (*Social Science*)

HS207 Special Topics in History - 1-4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor's permission or course prerequisites may be required for some courses.

HS299 Research and Special Projects - 1-4 credits

Students conduct research or create projects in areas of special interest. Students must prepare written proposals including project schedules and evaluation methods with faculty mentor assistance. Each proposal must be approved by faculty from the relevant discipline and the Dean of Academic Affairs. Open only to students who have completed 12 credits with a minimum GPA of 2.5.

HUMANITIES (HU)**HU109 Introduction to Humanities - 4 credits**

Survey of philosophy, art, music, literature and drama of a given time and place; approach may be historical, cross-cultural, or thematic. (*Humanities*)

HU110 World Cultures - 4 credits

Examination of traditional worldviews, religions, practices, and customs of the peoples of various world regions. Emphasis is on how cultural elements are expressed in music, dance, fine art, and literature. Special attention is given to indigenous cultures worldwide. (*Humanities*)

HU207 Special Topics in Humanities - 1-4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor's permission or course prerequisites may be required for some courses.

HU299 Research and Special Projects - 1-4 credits

Students conduct research or create projects in areas of special interest. Students must prepare written proposals including project schedules and evaluation methods with faculty mentor assistance. Each proposal must be approved by faculty from the relevant discipline and the Dean of Academic Affairs. Open only to students who have completed 12 credits with a minimum GPA of 2.5.

INFORMATION SYSTEMS (IS)**IS105 Computer Concepts - 2 credits**

Students will develop an understanding of basic computer concepts. Computer technology, hardware and software, Windows operating system, and security will be covered.

IS107 Digital Design and Publishing - 3 credits

Includes the use computer software and peripherals to manipulate page layouts, edit graphic images and use templates to create business forms. (*Art Elective*)

IS110 Principles of Information Systems - 4 credits

This course covers the fundamental skill levels for word processing, spreadsheets, presentation graphics, and databases with emphasis on real-world situations.

IS120 Networking - 4 credits

This course provides detailed descriptions and workings of network hardware and software components and covers operation and management of a LAN. Students will set up NICs, hubs, wiring for Ethernet, and other topologies. Prerequisite: IS105.

IS203 Advanced Word - 2 credits

Includes advanced tasks for creating, editing, formatting and printing a variety of documents using Microsoft Word. Prerequisite: IS110.

IS204 Advanced Spreadsheets - 2 credits

Includes advanced formulas and functions, printing and displaying graphs, and other advanced principles using Microsoft Excel. Prerequisite: IS110.

IS207 Special Topics in Information Systems - 1-4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor's permission or course prerequisites may be required for some courses.

LIBERAL STUDIES (LS)**LS103 College Success Seminar - 2 credits (1 lecture, 3 lab)**

Designed to show how to effectively manage time, study, take notes, increase organizational skills, take tests, use college technology, access information, and generally succeed while in college. Students develop lifelong learning skills and understanding of academic expectations, integrity, and community.

LS104 College Success Skills - 1 credit

Students will receive academic coaching in the areas of study skills, note-taking and test preparation and focused tutoring in current courses. This is a Pass/Fail course. This course is intended to support students' academic skills gained in LS103 College Success. Prerequisite: LS103

LS133 Online College Success - 2 credits (1 lecture, 3 lab)

This course is designed to show how to effectively manage time, study, take notes, increase organizational skills, take tests, use college technology, access information, and generally succeed while attending college in the KBOCC online learning environment. The course addresses how to navigate the online classroom, how to prepare for and participate in discussions, how to complete quizzes and tests and generally how to manage the online learning experience effectively. Students develop lifelong learning skills and understanding of academic expectations, integrity, and community in an online environment. This class will be tailored to the KBOCC Canvas LMS.

LS207 Special Topics in Liberal Studies - 1-4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor's permission or course prerequisites may be required for some courses.

LS290 Indigenous Research Methods - 4 credits

A research methods class that introduces academic research tools and an opportunity to conduct hands on research. This course will serve as an overview of basic research methods and topics, an introduction to statistical analysis using JASP and data handling through excel. Students will design and complete a short group research project that considers the relevancies, respect, responsibilities, and reciprocal

relations to Indigenous communities. Prerequisite: EN102; Corequisite MA201.

LS295 Teaching Assistant - 1-3 credits

In this experiential learning, a student will gain instructional experience as an undergraduate teaching assistant, including planning, set-up, coaching students, and demonstrating techniques. Prerequisite: Instructor permission and a B or better grade in the course in which the student will assist. The course may be repeated for credit. Prerequisites: sophomore status.

LS297 Capstone Seminar - 1 credit

The course provides students the opportunity to map their transfer plan, portfolio development, conduct small-scale individual projects and/or expand upon projects conducted during their course work and to polish skills needed for transferring to a four-year degree program or entering the work force. Required to take in last semester. Prerequisites: completion of EN202 and experiential learning - either LS295, LS298, or LS299.

LS298 Internship - 1-3 credits

This internship course gives the student the opportunity to grow academically, pre-professionally, personally and civically through participation in a service-learning experience with community organizations or government agencies. Students gain practical experience under the supervision of a practicing professional or at an approved site. In this experiential learning, students must work at least 40 hours at the work site for each credit, complete written journals, and meet regularly with their advisor. This is a Pass/Fail course. This course may be repeated for credit. Prerequisites: sophomore status.

LS299 Research and Special Projects - 1-3 credits

Students conduct research, create projects, or portfolio development in areas of special interest. Students must prepare written proposals including project schedules and evaluation methods with faculty mentor assistance. In this experiential learning, each proposal must be approved by faculty from the relevant discipline and the Dean of Academic Affairs. Open only to students who have completed 12 credits with a minimum GPA of 2.5. Prerequisites: sophomore status.

MATHEMATICS (MA)

MA094 Math Support - 2 credits

This course is designed to help students review and develop mathematical, computational, and quantitative reasoning skills necessary to succeed in the co-requisite course, MA103. This course integrates numeracy, algebraic reasoning, data literacy, computational literacy, and modeling, along with college success content (improving standardized test scores on college level math assessments). Co-requisite: MA103

MA103 Quantitative Reasoning - 4 credits

Students will continue to develop problem solving skills and methods to communicate quantitative arguments including writing and presentation. Topics include voting theory, geometric models, similarity and scaling, game theory, determination of problem-solving methods, their limitations, and use. (*Mathematics*)

MA105 College Algebra - 4 credits

Exploration of real numbers, equations, inequalities and absolute value, linear systems, conic sections, exponential and logarithmic functions, natural number functions and probability. Prerequisite: C or better in MA103 or placement. (*Mathematics*)

MA130 Precalculus - 4 credits

This course serves as a comprehensive foundation for students preparing to enter calculus and other advanced mathematical disciplines. It covers topics such as functions, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, systems of equations and inequalities,

analytic geometry, sequences, probability, counting theory, and an introduction to calculus concepts. Prerequisite: C or better in MA103 or placement. (*Mathematics*)

MA201 Probability and Statistics - 4 credits

Introduction to the basic methodologies used in the statistical analysis of data. Topics include probability, descriptive statistics, probability distributions including normal, t- and chi-square and techniques for statistical inference. Special attention is given to the application of methods for the biological, physical, and social sciences. The course uses EXCEL and MINITAB software for statistical analysis. Prerequisite: C or better in MA103 or placement. (*Mathematics*)

MA207 Special Topics in Mathematics - 1-4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor's permission or course prerequisites may be required for some courses.

MA299 Research and Special Projects - 1-4 credits

Students conduct research or create projects in areas of special interest. Students must prepare written proposals including project schedules and evaluation methods with faculty mentor assistance. Each proposal must be approved by faculty from the relevant discipline and the Dean of Academic Affairs. Open only to students who have completed 12 credits with a minimum GPA of 2.5.

NURSING (NR)

NR101 Fundamentals of Nursing Practice - 6 credits

This course is an introduction to the role of the professional nurse using a systematic approach to foundational, evidence-based nursing concepts. The nursing process is used to develop critical thinking and judgement to safely meet the basic needs of the patients the student nurse will be providing care. Emphasis is placed on fundamental nursing skills, professional practice and concepts that are relevant to patient-centered nursing care across the lifespan to include health promotion and disease prevention. This course includes lecture, laboratory, and clinical components. The student must maintain a grade of "B-" or better in general education and program courses. Prerequisites: Admission to the Nursing Program. Corequisites: NR150, NR151

NR102 Adult Health I - 6 credits

This course is an introduction to common acute and chronic conditions in adult patients. The course includes assessment and identification of clinical problems, prioritization, patient-centered and evidence-based nursing interventions, outcome development, and evaluation, and recognition of the usual course of medical treatments. There is a clinical component to this course. The student must maintain a grade of "B-" or better in general education and program courses. Prerequisites: NR101, NR150, NR151. Corequisites: NR103

NR103 Mental Health Nursing - 3 credits

This course focuses on mental health concepts, understanding the dynamics of human behavior and therapeutic communication with an emphasis on safe nursing care for the patient. This student will gain knowledge about the concepts of mood and affect, stress and coping, advocacy, safety, therapeutic communication and managing care. There is a clinical component to this course. The student must maintain a grade of "B-" or better in general education and program courses. Prerequisites: NR101, NR150 and NR151. Corequisites: NR102

NR105 Clinical Transitions - 1 credit

Clinical Transitions is a self-directed course designed for students who have been out of the nursing program sequence for more than one semester. This is an independent study, technical skills testing, and patient-centered care experiences based on the last semester of attendance. Activities are planned to review and evaluate a student's readiness to re-enter the nursing sequence. This course will be offered

as needed and will require the approval of the Nursing and Health Sciences Department Chair.
Prerequisites: Admission to the Nursing Program.

NR150 Nursing Assessment and Pathophysiology - 3 credits

This course is designed as an interactive lecture and lab experience to introduce the student to the knowledge and skills needed to perform a systematic physical assessment of a patient and record the findings appropriately. The course emphasizes a holistic approach to assessment and the identification of underlying health conditions, health promotion and disease prevention while encompassing the adult patient. This course will also provide the student with the ability to communicate their findings with other members of the healthcare team. This course is interactive with a hands-on approach, utilizing mannikins and simulation. Prerequisites: Admission to the Nursing Program. Corequisites: NR101, NR151.

NR151 Pharmacology and Dosage Calculations - 3 credits

This course is an introduction to the nurse's role in the safe preparation and administration of a variety of medications, including dosage calculations. It will provide the student nurse with the foundational and governing principles of pharmacology in nursing across the lifespan. They will be provided with the concepts of pharmacodynamics and pharmacokinetics, along with major drug classes and their prototypes. Students will also gain an understanding of the importance of safe medication administration and providing patient education. The student must maintain a grade of "B-" or better in general education and program courses. Prerequisites: Admission to the Nursing Program. Corequisites: NR101, NR150

NR154 Practical Nursing Exit Course - 3 credits (3-0)

This course is designed to provide both theory and lab experiences for those students wanting to exit the ADN program to either pursue their career as an LPN or to obtain their LPN licensure and return in the second year to complete the AND program while having the opportunity to work as an LPN. The course strengthens the student's ability to develop and utilize the nursing care plan, complete detailed assessments, and engage in clinical reasoning. Students completing the course will understand the differences between the LPN and RN scope of practice. Nursing skills reviewed and evaluated include but are not limited to those skilled found within the LPN Scope of Practice. Prerequisites: NR101, NR150, NR151, NR102, NR103.

NR200 Transition to RN Program - 1 credit (1-1)

This course is a theory and lab experience designed for the Licensed Practical Nurse who possess a current license and have stepped out of nursing school for greater than one year. The course is designed to strengthen the student's ability to develop and utilize the nursing care plan, complete detailed assessments, and engage in clinical reasoning. Students completing the course will understand the difference between the LPN and RN scope of practice and the differences in their responsibilities as an RN. Nursing skills reviewed and evaluated will include but are not limited to those skills and responsibilities that fall within the RN Scope of Practice. Prerequisites: LPN licensure, Admission to the Nursing Program, GPA requirements, BI223, BI224 within the past 5 years, completion of the HESI exam.

NR202 Adult Health II - 6 credits

This course focuses on the care of adult patients with increasingly complex acute and chronic conditions. The course includes the development of professional nursing skills such as delegation, collaboration, and prioritization. There is a clinical component to this course. The student must maintain a grade of "B-" or better in general education and program courses. Prerequisites: NR101, NR150, NR151, NR102, NR103. Corequisites: NR203.

NR203 Family Centered Nursing - 5 credits

This course will focus on concepts of family and child development from conception through adolescence. The course includes participation in patient-centered care of maternal/child and pediatric clients through the application nursing judgment. There is a focus on the family and significant others, identifying diverse cultural backgrounds, patterns of knowing and situational crisis of family health. Both observational as

well as hands on activities will be provided, including community nursing and resources that can be identified in various healthcare settings and agencies. There is a clinical component to this course. The student must maintain a grade of "B-" or better in general education and program courses. Prerequisites: NR101, NR150, NR151, NR102, NR103. Corequisites: NR202.

NR204 Adult Health III - 6 credits

This course will focus on delivering patient-centered care to adult clients with emergent and multi-system problems. The course will include an introduction to critical care and emergency care nursing while applying critical thinking and judgment, evidence-based practice, and collaboration with the interprofessional healthcare team. There is a clinical component to this course. The student must maintain a grade of "B-" or better in general education and program courses. Prerequisites: NR101, NR150, NR151, NR102, NR103, NR202, NR203. Corequisites: NR297.

NR297 Capstone - 1 credit

The purpose of this course is to facilitate the safe role transition from student nurse to graduate nurse while applying theory to practice in a supervised clinical setting. This will allow the student to synthesize previous knowledge and skills, develop new knowledge and skills for the management of patients across the healthcare continuum, reflect on their learning achievements throughout their nursing education and to increase their nursing knowledge and skills to adequately prepare for successful passage of the NCLEX-RN. Prerequisites: NR101, NR150, NR151, NR102, NR103, NR202, NR203. Corequisites: NR204.

OJIBWA STUDIES (OS)

OS110 Ojibwa Language and Culture I - 4 credits

Introduction to Ojibwa language, customs and traditions. Designed to acquaint students with basic Ojibwa grammar, vocabulary and idioms while presenting an overview of historic and contemporary Ojibwa lifestyles. (*Anishinaabe Awareness*) (*Humanities Elective*)

OS135 Keweenaw Bay Indian Community History - 2 credits

Overview of the history of the Keweenaw Bay Indian Community. Topics include the creation of the L'Anse Indian reservation, tribal leaders, origins of Indian gaming, treaties, and related topics. (*Anishinaabe Awareness*) (*Social Science Elective*)

OS205 Ojibwa Language and Culture II - 4 credits

Continuation of OS110. Further study of Ojibwa language, customs, and traditions. Develops students' skills in oral and written Ojibwa and expands their knowledge of historic and contemporary Ojibwa lifestyles. Prerequisite: OS 110. (*Anishinaabe Awareness*) (*Humanities Elective*)

OS207 Special Topics in Ojibwa Studies - 1-4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor's permission or course prerequisites may be required for some courses.

OS299 Research and Special Projects - 1-4 credits

Students conduct research or create projects in areas of special interest. Students must prepare written proposals including project schedules and evaluation methods with faculty mentor assistance. Each proposal must be approved by faculty from the relevant discipline and the Dean of Academic Affairs. Open only to students who have completed 12 credits with a minimum GPA of 2.5.

PHYSICAL EDUCATION (PE)

PE102 Bowling - 1 credit

Introduction to basic bowling skills, etiquette, and rules with emphasis on approach, delivery, and optimizing scores.

PE103 Weight Training - 1 credit

Introduction to weight training and its role in physical fitness and wellness.

PE107 Aerobics - 1 credit

Introduction to aerobic exercise. Class exercises include warm-up, aerobic dance, toning and strengthening, cool-down, and relaxation.

PE110 Personal Health - 1 credit

Introduction to basic principles of physical activity and nutrition for maintaining good health. Provides practical experience in adopting the principles in students' own lives.

PE111 Personal Self Defense - 1 credit

Designed to empower students with the knowledge and skills necessary to protect themselves in various situations. Rooted in traditional tribal values, modern self-defense techniques and scientific anatomy & kinesiology, this course offers a holistic approach to personal safety, situational awareness, and mental resilience. Pre- or Co-requisite: PE11.

PE112 Powwow Dancing - 1 credit

Introduction to the different types of powwow dances, powwow etiquette, and conditioning methods to prepare students to participate in weekend long powwows. (*Anishinaabe Awareness*)

PE113 Intermediate Personal Self Defense - 1 credit

Designed to empower students with the knowledge and skills necessary to protect themselves in various situations. Rooted in traditional tribal values, modern self-defense techniques and scientific anatomy & kinesiology, this course offers a holistic approach

PE120 Yoga for Beginners - 1 credit

Students will learn strategies to deal with stress, focusing on mindfulness and meditation, along with basic yoga postures. We will learn basic breathing techniques and other tools to bring mental clarity, emotional balance and focus into their daily life.

PE207 Special Topics in Physical Education -1-4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor's permission or course prerequisites may be required for some courses.

PE299 Research and Special Projects - 1-4 credits

Students conduct research or create projects in areas of special interest. Students must prepare written proposals including project schedules and evaluation methods with faculty mentor assistance. Each proposal must be approved by faculty from the relevant discipline and the Dean of Academic Affairs. Open only to students who have completed 12 credits with a minimum GPA of 2.5.

PSYCHOLOGY (PY)

PY101 Introduction to Psychology - 4 credits

Survey of the field of psychology. Behavior and mental processes are studied from the viewpoints of biological foundations, cognitive processes, emotion, motivation, life-span development, adjustment, abnormality and social psychology. (*Social Science*)

PY207 Special Topics in Psychology - 1-4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor's permission or course prerequisites may be required for some courses.

PY210 Child Psychology - 4 credits

Examination of current research and theories on the physical, cognitive, social and emotional development of children from conception through adolescence. Includes discussion of practical applications for parenting, childcare and education. Recommended prerequisite: PY101 (*Social Science*)

PY216 Personality Psychology - 4 credits

General introduction to assessment techniques, methods, and applications that constitute Personality Psychology. As the semester progresses deeper investigations on traits, biological influence, psychoanalysis, and culture will lead us to answering questions related to why people act the way they do? And what is the difference between normal and exceptional personalities? Prerequisite: PY101 (*Social Science*)

PY217 Crisis Intervention - 4 credits

This course delivers an understanding of how various crises impact the life of both, the individual and group. Numerous forms of crisis are identified and explored along with procedures and techniques utilized in defusing these situations. Interventions and evidence-based practices are identified along with various referral resources. Prerequisite: PY101 (*Social Science*)

PY2220 Dynamics of Addiction - 4 credits

Exploratory course examining the multifaceted subject of substance abuse and addiction. In this course we will investigate the intersection between biology and the social sciences narrowing in on their manifestation across varying demographics. This course is broken down into three sections: Addictions of substance, addiction of behavior, and addictions of process. Prerequisite: PY101 (*Social Science*)

PY217 Crisis Intervention - 4 credits

This course delivers an understanding of how various crises impact the life of both, the individual and group. Numerous forms of crisis are identified and explored along with procedures and techniques utilized in defusing these situations. Interventions and evidence-based practices are identified along with various referral resources. Prerequisite: PY101 (*Social Science*)

PY230 Post Colonial Psychology - 4 credits

An exploratory seminar-based course that examines contexts and concepts related to the historical colonization and the drive to decolonize Indigenous Communities. Early writings and modern works will be analyzed alongside peer reviewed research focusing on healing the soul wounds of the Indigenous peoples. Prerequisite: PY101 (*Social Science*)

PY240 Abnormal Psychology - 4 credits

Examination of current theories and research on disordered or dysfunctional human behavior. Topics include the various perspectives for understanding the causes of disorders and corresponding approaches to treatment. Recommended prerequisite: PY101 (*Social Science*)

PY250 Developmental Psychology - 4 credits

A survey of human development across the life span in the areas of biological, cognitive, social, emotional, and personality development. Provides insight into both the universal development of humans and the uniqueness of individuals. Prerequisite: PY101 (*Social Science*)

PY260 Social Psychology - 4 credits

Exploration of theories and research on the psychology of social interactions and their applications in everyday life. Topics include social facilitation, group processes, leadership, intergroup conflict, interpersonal attraction, persuasion and altruism. Recommended prerequisite: PY101 (*Social Science*)

PY295 Teaching Assistant - 1-3 credits

In this experiential learning, a student will gain instructional experience as an undergraduate teaching assistant, including planning, set-up, coaching students, and demonstrating techniques. Prerequisite: Instructor permission and a B or better grade in the course in which the student will assist. The course may be repeated for credit. Prerequisites: sophomore status.

PY297 Capstone Seminar - 1 credit

Competency based course designed for students in their last semester. The capstone seminar focuses on demonstrating the competencies associated within the psychology program learning outcomes. These competencies are demonstrated through discussions, APA formatting, research methodologies, and scientific & technical communication. This course requires students to diagnose and research a novel issue in depth and pair scientific reasoning with indigenous research methodologies to format a research proposal and present on it. Prerequisite: EN202; Co-requisite: EN106

PY299 Research and Special Projects - 1-4 credits

Students conduct research or create projects in areas of special interest. Students must prepare written proposals including project schedules and evaluation methods with faculty mentor assistance. Each proposal must be approved by faculty from the relevant discipline and the Dean of Academic Affairs. Open only to students who have completed 12 credits with a minimum GPA of 2.5.

SOCIOLOGY (SO)**SO101 Introduction to Sociology - 4 credits**

Introduction to the study of human interaction. Topics include social organization, socialization, deviance, status and role, and social and cultural change. (*Social Science*)

SO102 Social Problems - 4 credits

Examination of current social problems in American society. Topics include poverty, racism, crime, pollution, and disease as well as methods used to combat these problems. (*Social Science*)

SO200 Critical Thinking and Ethics - 4 credits

This course is designed to help develop critical thinking skills central to academia but highly translatable in day-to-day life. Topics will include arguments, logic, causal claims, surveys, theory evaluation, experiment evaluation, scientific and technical communication, and ethical considerations within groups. (*Social Science*)

SO201 Marriage and the Family - 4 credits

Study of the role of marriage and the family in contemporary society with historical perspectives and sociological analysis. (*Social Science*)

SO202 Minority Groups in America - 4 credits

Explores the theory of racism, prejudice, political economic, and social inequalities, and conflict. It addresses minority problems and contributions to American life and culture. Recommended prerequisite: SO101. (*Social Science*)

SO207 Special Topics in Sociology - 1-4

Exploration of topics pertaining to current events or of special interest to students. Instructor's permission or course prerequisites may be required for some courses.

SO299 Research and Special Projects - 1-4

Students conduct research or create projects in areas of special interest. Students must prepare written proposals including project schedules and evaluation methods with faculty mentor assistance. Each proposal must be approved by faculty from the relevant discipline. Open only to students who have completed 12 credits with a minimum GPA of 2.5.

VOCATIONAL INSTRUCTION (VI)

VI110 WELD-Fundamentals - 3 credits (1 lecture, 4 lab)

In this course students will learn the setup and proper use of Mig (GMAW), flux-core arc (FCAW), and Arc (SMAW) equipment. Students will practice SMAW with cellulose and low-hydrogen electrodes. Students will also perform welds using short circuit and spray transfer methods. Students will learn theory, metallurgy, and electrode selection in this class. Welding performance is held to the American Welding Society standards for performance and proper weld profile.

VI120 Industrial Technology-Machine Tool - 3 credits (1 lecture, 4 lab)

In this class students will learn the theory and apply the basic operations of typical machine tools such as lathes, mills, drills, and grinders and the use of precision bench tools and layout equipment. Students will learn the application of the various tool room machines, practical knowledge of machine processes, and basic machine shop skills.

VI130 Technical Design- Documentation and Blueprint Reading - 4 credits

Students will learn the importance of industrial drawings and elements of blueprints that will allow them to successfully interpret these drawings. Topics covered will be the use of measuring tools, tolerancing, and measurement systems.

VI140 Industrial Communication and Skills - 2 credits

Students will learn the basic principles associated with industrial communications, and professionalism including graphical, oral and written techniques.

VI200 WELD-GMAW (Mig) - 3 credits (1 lecture, 4 lab)

In this course students will learn the setup and proper use of Mig (GMAW) and flux-core arc welding (FCAW) equipment. Students will learn theory, metallurgy, and electrode selection in this class. Students will perform welds using short circuit and spray transfer methods. Welding performance is held to the American Welding Society standards for performance and proper weld profile. Prerequisite: VI230

VI207 Special Topics in Vocational Instruction - 1- 4 credits

Exploration of topics pertaining to current events or of special interest to students. Instructor's permission or course prerequisites may be required for some courses.

VI210 WELD GTAW (Tig) - 3 credits (1 lecture, 4 lab)

In this course students will learn the set-up and proper use of Tig (GTAW) welding equipment. Students will learn theory, metallurgy, and electrode selection for ferrous and non-ferrous metals in this class. Welding performance is held to the American Welding Society standards for performance and proper weld profile.

VI220 WELD-Pipe - 3 credits (1 lecture, 4 lab)

Students will learn the fundamentals of pipe welding. Students will perform welds in the 1G, 2G, 5G, and 6G positions using SMAW, GMAW, FCAW, GTAW. Students will learn the difference between AWS, ASME, and API qualifications. Students will also demonstrate proper fitment of pipes. Prerequisite: VI110, VI200, VI210 and VI230.

VI230 WELD-Test Plate - 3 credits (1 lecture, 4 lab)

In this class students will perform AWS qualification plates in flat, horizontal, vertical, and overhead positions using different welding processes. Students will learn the proper methods for destructive and non-destructive testing.

VI240 WELD-Fabrication and Design - 3 credits (1 lecture, 4 lab)

Students in this course will learn the principles of fabrication and design. Shop fabrication and field fabrication will be covered in this course. Upon completion of this course students will be able to successfully layout and square metal fabrications. Prerequisite: VI200, VI210 and VI220

VI250 Basic CNC - 3 credits (1 lecture, 4 lab)

Students learn the necessary concepts required for programming Computer Numerical Controlled (CNC) equipment with an emphasis on Fanuc style G&M code.