



**Liberal Arts Program
Student Learning Outcome Mapping
Course (CLO), Program (PLO), Institutional (ILO)**

Program Description: This program is designed for students who wish to complete the first two years of general college work prior to transferring to a four-year college or university or for students desiring two years of general education beyond high school.

Program Learning Outcomes	Institutional Learning Outcomes
<ol style="list-style-type: none"> 1. Demonstrate proficiency in critical thinking and problem-solving skills. 2. Demonstrate proficiency in the areas of listening, reading, and oral/written communication. 3. Demonstrate proficiency in the areas of computer literacy and information competency/ technology. 4. Develop a fundamental understanding of the Humanities including the significance and chronology of major events and movements in Western civilization. 5. Develop a fundamental understanding of the Natural Sciences, including major concepts, principles, and theories of the biological and physical environment. 6. Develop a fundamental understanding of the Social Sciences, including major concepts of social, political, geographic, and economic structures. 	<ol style="list-style-type: none"> 1. Critical Thinking and Problem Solving: Analyze and solve problems by using informed judgment based on evidence, sound reasoning, and/or creativity to differentiate facts from opinions and to specify solutions and their consequences. 2. Communication: Effectively communicate, both orally and in writing, thoughts in a clear, well-organized manner to persuade, inform and/or convey ideas in academic, work, family and community settings. 3. Quantitative and Technological Competence: Use mathematical skills appropriate to our technological society by analyzing and solving problems that are quantitative in nature and use technology for informational, academic, personal and professional needs. 4. Diversity: Understand and appreciate differences in cultures and behaviors between the self and others by demonstrating respect, honesty, fairness, and ethical principles in both personal and professional life. 5. Civic Responsibility: Apply the principles of civility and morality to situations in the contexts of a healthy family, work, community, environment and world. 6. Aesthetics: Apply numerous means of inquiry to experience and appreciate the values of arts and nature.

PLO-ILO Mapping

PLOs	ILOs					
	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
PLO 1	X	X	X	X	X	X
PLO 2	X	X	X	X	X	X
PLO 3	X	X	X			
PLO 4	X	X	X	X	X	X
PLO 5	X	X	X	X	X	X
PLO 6	X	X	X	X	X	X

CLO-PLO-ILO Mapping

English

EN 114 - Advanced Composition

This course provides practice in the skills needed for both academic and research writing. Through critical reading selections, students are taught methods of generating, supporting, and organizing ideas, collecting and analyzing primary and secondary evidence, and paraphrasing, summarizing, and quoting. Proper format, documentation and editing skills are also enhanced.

CLO Students will be able to:	PLO							ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6		ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Write effective research papers.	X	X	X	X	X	X		X	X	X	X	X	X

EN 189 - Elements of Literature

This course introduces students to techniques of three genres of imaginative literature: fiction, poetry, and drama. Through recognition of these elements of the literary form, the student will develop critical standards for judging literal works.

CLO Students will be able to:	PLO							ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6		ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Critically analyze and write about literary poetry.	X	X	X	X	X	X		X	X		X	X	X
2. Critically analyze and write about literary fiction.	X	X	X	X	X	X		X	X		X	X	X
3. Critically analyze and write about literary drama.	X	X	X	X	X	X		X	X		X	X	X

EN 219 - Research Methods/Field Ethnography

This course introduces students to the study of oral history. Research methods, in and out of the field, will be explored. Students will be expected to conduct interviews, write field notes and process ethnographic material. Field activities as well as documentation will be required.

CLO Students will be able to:	PLO						ILO						
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6	
1. Identify existing sources of information about the topic to clarify what information is available and what is lacking to develop an oral history project plan.	X	X	X	X	X	X	X	X	X	X	X	X	X
2. Plan, formulate, and manage proposed oral history project.	X	X	X	X	X	X	X	X	X	X	X	X	X
3. Develop interview instrument, schedule interviews, conduct, interview, and analyze interview transcripts.	X	X	X	X	X	X	X	X	X	X	X	X	X
4. Synthesize, evaluate, and produce a written report on an approved project.	X	X	X	X	X	X	X	X	X	X	X	X	X

Quantitative

MA 110 - Survey of Mathematics

This course is designed for liberal arts students. It gives an overview of what mathematics is really like by exploring various mathematical concepts. Topics include critical thinking, sets, logic, system of numeration, number theory and the real number system, algebra, graphs and function, geometry, probability, and statistic.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Organize, formulate, and apply mathematical problem solving strategies in solving a problem.	X		X				X		X			
2. Perform operations and applications of sets, and apply factorials, combinations, and permutations in solving application problems.	X		X				X		X			
3. Construct truth tables and prove statements with various logic laws including direct, indirect, or transitive reasoning.	X		X				X		X			
4. Define the various geometry terminologies and solve triangles with different methods.	X		X				X		X			
5. Calculate the perimeter, area, and volume for various figures.	X		X				X		X			
6. Identify and evaluate financial problems and classify and evaluate the sum of a series and sequences.	X		X				X		X			

MA 111 - College Algebra

This course is the first part of the algebra and trigonometry precalculus sequence. This course covers algebraic functions including graphs of functions, algebraic operation and composition of functions, exponential and logarithmic functions, and inverse functions. It also covers the remainder and factor theorems, division of polynomials, rational and irrational roots of polynomials, linear and nonlinear system of equations, and matrix algebra

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Graph linear functions, write equations of lines, and solve linear equations and variation problems.	X		X				X		X			
2. Graph non-linear functions, perform operations on functions, and find compositions and inverses of functions.	X		X				X		X			
3. Graph exponential and logarithmic functions and solve application problems with exponential and logarithmic equations.	X		X				X		X			
4. Solve polynomial equations with rational and irrational solutions.	X		X				X		X			
5. Solve systems of equations with various methods, perform matrix operations, and solve matrices.	X		X				X		X			
6. Graph linear inequalities involving 2 variables.	X		X				X		X			

MA 112 - Trigonometry

This course is the second part of the algebra and trigonometry precalculus sequence. It covers the trigonometric functions and their values, trigonometric graphs, trigonometric identities and equations, inverse trigonometric functions, and applications of trigonometry.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Define and apply the six trigonometric functions to solve right triangles.	X		X				X		X			
2. Graph the six trigonometric functions.	X		X				X		X			
3. Verify trigonometric identities and solve trigonometric equations.	X		X				X		X			
4. Solve application problems involving oblique triangles and find areas of triangles.	X		X				X		X			
5. Add and multiply vectors, graph vectors, solve application problems with vectors, and solve equations involving complex numbers.	X		X				X		X			

MA 121 - Elementary Statistics

This course is designed to acquaint students with methodologies and techniques for the collection, presentation, analysis, and interpretation of quantitative data. Topics include basic statistics, summarizing univariate data, correlation and regression for bivariate data, concepts of probability, probability distributions, and sampling distributions. Some uses of statistical software will be incorporated in this course.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Explain statistical terms, data collection, and types of sampling.	X		X				X		X			
2. Analyze and present descriptive statistics for a single-variable set of data.	X		X				X		X			
3. Analyze and present descriptive statistics for a two-variable set of data.	X		X				X		X			
4. Explain the rules of probability and use them in computing expected values.	X		X				X		X			
5. Construct a probability distribution and compute the mean and standard deviation for the distribution.	X		X				X		X			
6. Describe the normal distribution and solve problems using the normal distribution.	X		X				X		X			
7. Describe the distribution for sample means and solve application problems using the sample means.	X		X				X		X			

MA 221 - Calculus I

This is the first course of a standard calculus course. Topics include a review of functions and their graphs, limits of functions, continuity, derivatives of algebraic and transcendental functions, implicit differentiation, applications of differentiation including rate of change and related rates problems, Newton's Method, and antiderivatives.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Evaluate and graph functions, determine the domain and range of functions, find the composition and the inverse of functions, and solve application problems.	X		X				X		X			
2. Evaluate the limit for functions presented in algebraic or graphical form and identify points of discontinuity or continuity for functions.	X		X				X		X			
3. Differentiate various types of functions using differentiation rules including implicit and logarithmic differentiation.	X		X				X		X			
4. Solve application problems including rate of change, related rates, and exponential growth and decay problems.	X		X				X		X			
5. Evaluate limits with indeterminate forms using L'hospital's rule, solve optimization problems using differentiation, approximate roots of equations using Newton's Method, and find antiderivative of simple functions.	X		X				X		X			

Natural Science

SC 109 - Principles of Biology I

This is the first semester of a two semester course that covers cells and molecular biology, generics, evolution, and the origin and history of life on earth.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Describes all eight characteristics of living things.	X	X	X		X		X	X	X			
2. Describes all four groups of biological molecules.	X	X	X		X		X	X	X			
3. Describe the seven major structures and functions of the plasma membrane.	X	X	X		X		X	X	X			
4. Identify a function of each of the different structures found in cells and state whether each would be found in prokaryotic, plant, or animal cells.	X	X	X		X		X	X	X			
5. Describe five major reactions of photosynthesis.	X	X	X		X		X	X	X			
6. Describe the evidence for DNA being the genetic material, how the molecular structure of DNA was worked out, and how DNA is copied, packaged and organized into chromosomes.	X	X	X		X		X	X	X			

SC 110 - Principles of Biology II

This is the second of a two-semester course that covers the classification, diversity, structure, physiology, and ecology of living organisms.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Explain the five kingdom system of classification.	X	X	X		X		X	X	X			
2. Compare eukaryotic and prokaryotic microorganisms.	X	X	X		X		X	X	X			
3. Identify the major groups of plants.	X	X	X		X		X	X	X			
4. Examine specimens in the Kingdom Plantae.	X	X	X		X		X	X	X			
5. Distinguish the major groups in the Kingdom Animalia.	X	X	X		X		X	X	X			
6. Examine specimens in the Kingdom Animalia.	X	X	X		X		X	X	X			

SC 119 - Introduction to Physical Science

This course provides students with an introduction to the physical sciences beginning with physics and studies of measurement, motion, gravity, energy, electricity, and magnetism. Chemistry covers fundamentals of matter, atomic theory, and the periodic table. Earth Science includes geologic evolution of the planet, environmental geology and astronomy.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. SCIENTIFIC INVESTIGATION: Develop abilities that are necessary to properly conduct scientific investigations, gather and analyze data, and present findings in a formal written report.	X	X	X		X		X	X	X			
2. SCIENTIFIC MEASUREMENTS: Acquire quantitative data from laboratory and field procedures to describe dimensional objects or events.	X	X	X		X		X	X	X			
3. SCIENTIFIC KNOWLEDGE: Integrate, analyze, and apply all of the basic scientific concepts and principles of physical science in the areas of physics, chemistry, and geology.	X	X	X		X		X	X	X			
4. CRITICAL THINKING: Demonstrate the ability to use process skills, critical thinking, scientific reasoning and strategies to investigate and solve problems in a variety of scientific, technological, environmental and everyday contexts.	X	X	X		X		X	X	X			

SC 120 - Physical Geology

This course is intended to provide students with a sound understanding of the basic processes of geology. Topics include the origin, composition, and structure of the earth, internal processes and plate tectonics, weathering and soil, and surface processes.

CLO Students will be able to:	PLO							ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6		ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Knowledge on the basic concepts of physical geology – Demonstrate competency in the basic concepts of physical geology by providing concise explanations and engaging in lively discussions about the way geology affects our planet and our lives.	X	X	X		X			X	X	X			

SC 159A - Anatomy & Physiology

This first section of Anatomy and Physiology course will cover the first three levels of organization of Anatomy and Physiology: (1) Molecules/Chemistry, (2) the Cell, and (3) Tissues. This course will focus on the fundamentals of organic and inorganic chemistry needed for nursing. The next cell level will focus on the organelles and functions of the cell. The tissue level will focus on the four main types of tissue in the body and their functions. During laboratory the students will learn skills in chemistry, the use of equipment, and how to make up solutions of chemicals. To help visualize chemical concepts, the students will make models of sugars and DNA. Prepared slides of cells and tissues will be used to help the students understand microscopic anatomy by using the microscope. The last part of the lab will focus on the human skeleton. Students will know all the bones of the human body, how they articulate with each other and the special features of each bone.

CLO Students will be able to:	PLO							ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6		ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Demonstrate understanding of the human anatomy's levels of organization.	X	X	X		X			X	X	X			
2. Demonstrate proper use & care of various laboratory equipment.	X	X	X		X			X	X	X			
3. Recreate DNA structure.	X	X	X		X			X	X	X			
4. Demonstrate understandings of the different functions of cells and tissues.	X	X	X		X			X	X	X			
5. Demonstrate understandings of the human skeletal system.	X	X	X		X			X	X	X			
6. Demonstrate understandings of Carbohydrate (sugar) structure.	X	X	X		X			X	X	X			

SC 159B - Anatomy & Physiology

This course teaches students about reproductive biology and the eleven major organ systems of the body. During lecture charts, models and demonstrations and laser discs will be used to help explain concepts. Students enter this course with a strong foundation on the organization levels of chemistry, cells and tissues. They examined cells and tissue sections and learned the skeletal system during their first semester. This course focuses on the organization levels of organs, organ systems and the organisms. This second semester course on anatomy and physiology builds upon the information from the first semester course with an emphasis on upper organization levels of the human body. During laboratory, students will dissect and identify all organ systems in both a cat and a fetal pig. Students will learn skills in dissection; knowledge in testing physiological functions and identifying specific tissue types for each system. These skills directly apply to their work as nurses.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Demonstrate understandings of the human development and inheritance.	X	X	X		X		X	X	X			
2. Demonstrate understandings of the human body system I.	X	X	X		X		X	X	X			
3. Demonstrate understandings of the human body system II.	X	X	X		X		X	X	X			

SC 160 - General Chemistry I

This course is the first part of a two-semester course that covers fundamental principles in chemistry. This course provides the beginning student with an adequate foundation in the fundamentals of chemistry. Topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, solutions, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, and an introduction to thermodynamics. Laboratory investigations are an integral part of this course and reinforce fundamental principles of general chemistry, introduction of the scientific method, experimental design, data collection and analysis, and preparation of laboratory reports.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. KNOWLEDGE IN GENERAL CHEMISTRY – Gain knowledge in the fundamental concepts and principles in chemistry including, but not limited to, classification of matter, formation of molecules and ions, nomenclature, stoichiometry, thermochemistry, electronic structure, bonding, and molecular geometry.	X	X	X		X		X	X	X			
2. SCIENTIFIC INQUIRY – Demonstrate the ability to incorporate the proper investigative protocols, select the most appropriate instruments to increase experimental data precision and accuracy, enforce safety regulations, and demonstrate professional affective skills when conducting scientific experiments or investigations to solve a problem or identify the best solution(s) to a problem.	X	X	X		X		X	X	X			

3. SCIENTIFIC REPORT WRITING – Demonstrate the ability to communicate findings of scientific investigations in formal written scientific reports.	X	X	X		X			X	X	X			
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SC 161 - General Chemistry II

This course is the second part of a two-semester course that covers fundamental principles in chemistry. This course provides the beginning student with an adequate foundation in the fundamentals of chemistry. Topics include, to some details, properties of gases, liquids, and solutions, chemical kinetics, chemical equilibria, descriptive inorganic chemistry, and an introduction to organic chemistry and biochemistry of the four major macromolecules in human body. Laboratory investigations are an integral part of this course and reinforce fundamental principles of general chemistry, introduction of the scientific method, experimental design, data collection and analysis, and preparation of laboratory reports.

CLO Students will be able to:	PLO						ILO						
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6	
1. KNOWLEDGE IN GENERAL CHEMISTRY – Gain knowledge in the fundamental concepts and principles in chemistry including, but not limited to, properties of gas, liquid, and solid substances, intermolecular forces, solution formation and the energy involved in the dissolution process, determination of acids and bases, pH and pOH value calculations, entropy and free energy involved in spontaneous processes, chemical equilibrium and factors that influences the rate of chemical reaction, nomenclature of organic molecules, and chemical structure of living matter.	X	X	X		X		X	X	X				
2. SCIENTIFIC INQUIRY –	X	X	X		X		X	X	X				

Demonstrate the ability to incorporate the proper investigative protocols, select the most appropriate instruments to increase experimental data precision and accuracy, enforce safety regulations, and demonstrate professional affective skills when conducting scientific experiments or investigations to solve a problem or identify the best solution(s) to a problem.													
3. SCIENTIFIC REPORT WRITING – Demonstrate the ability to communicate findings of scientific investigations in formal written scientific reports.	X	X	X		X			X	X	X			

SC 190 - Introduction to Marine Science

The purpose of this course is to provide an overview of the marine environment. It introduces general theory and principles in marine science covering the biological, chemical, geological and physical characteristics of the marine environment. Laboratory investigations of selected topics in the course content, which also include the use of scientific method, measurement, laboratory apparatus, and safety procedures, are an integral part of this course.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. KNOWLEDGE IN PHYSICAL OCEANOGRAPHY – Demonstrate the knowledge of basic physical oceanography concepts.	X	X	X		X		X	X	X	X		X
2. KNOWLEDGE IN MARINE BIOLOGY – Demonstrate the knowledge of basic marine biology concepts.	X	X	X		X		X	X	X	X		X

<p>3. SCIENTIFIC INVESTIGATION – Design an experiment to investigate a marine habitat and determine appropriate scientific techniques in field investigations to answer a question, gather and analyze data, and report findings.</p>	X	X	X		X		X	X	X	X		X
<p>4. RESEARCH SKILLS (WRITTEN COMMUNICATION) – Actively learn outside of the classroom and demonstrate the ability to conduct research.</p>	X	X	X		X		X	X	X	X		X
<p>5. KNOWLEDGE SHARING (ORAL COMMUNICATION), and/or KNOWLEDGE APPLICATION – Share knowledge to diverse audience presenting results of investigation to a local audience and engage in community activities to promote awareness of the research and/or other marine science issues at the local level.</p>	X	X	X		X		X	X	X	X		X

SC 205 - Physics I

This is the first semester of a two-semester calculus based physics course intended for students with a desire to continue to advanced studies of science and engineering. Topics covered in this course will be units and problem solving, kinematics in one and two dimensions, Newton's laws, momentum, rotational and linear dynamics, work and energy, sound and light waves, fluid dynamics and thermal dynamics.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Apply dimensional analysis and convert units of physical quantities: use vectors to describe physical observations.	X	X	X		X		X	X	X			
2. Perform and demonstrate detailed problem solving expertise: identify the meaning of space and time, and apply these abstractions to the physical world.	X	X	X		X		X	X	X			
3. Derive formulas for kinematics: investigate the nature of space and time to develop calculus definitions of velocities and accelerations.	X	X	X		X		X	X	X			
4. Determine the motion of massive bodies in three dimensions: apply Newtons Laws of motion, and resolve vector diagrams on static and dynamical systems.	X	X	X		X		X	X	X			
5. Describe the physics of circular motion in a plane: define the scientific meaning of "Energy", "Work", and "Power".	X	X	X		X		X	X	X			
6. Differentiate between scalar and vector mathematics: describe Newtons laws via momentum.	X	X	X		X		X	X	X			

7. Describe Momentum via calculus: define Mass, and contemplate its origin: apply Newtons laws to gravity, and use this information to describe orbital motion: resolve the motion of satellites: and describe Keplers Laws of planetary motion.	X	X	X		X		X	X	X				
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SC 206 - Physics II

This is the second semester of a two-semester calculus based physics course intended for students with a desire to continue to advanced studies of science and engineering. Topics covered in this course will be static electricity, electrical fields, series and parallel circuits, magnetic fields, electromagnetic induction, Quantum theory, Bohr and modern atom, solid state electronics, nuclear physics, radiation, nuclear applications.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Apply the fundamentals of density, pressure, Pascal's Principle, buoyancy and Archimedes' Principle.	X	X	X		X		X	X	X			
2. Apply the fundamental parameters of wave phenomena.	X	X	X		X		X	X	X			
3. Describe interference and refraction phenomena.	X	X	X		X		X	X	X			
4. Analyze electric fields and forces for simple arrangements of static charges using Gauss's Law and Coulomb's Law.	X	X	X		X		X	X	X			
5. Analyze magnetic fields for simple arrangements of currents using Ampere's Law.	X	X	X		X		X	X	X			
6. Analyze electric fields and magnetic fields for simple arrangements of changing electric and magnetic fields Faraday's Law and Ampere's Law.	X	X	X		X		X	X	X			

7. Apply Maxwell's Equations in differential and integral form; and discuss the relationship of Maxwell's Equations to the phenomenon of light and electromagnetic radiation.	X	X	X			X		X	X	X			
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SC 209 - Microbiology

This course is an introduction to the structure and function of cells and viruses, with an emphasis on bacteria. The basic techniques of isolation, identification, and pure culture are covered in the laboratory as well as a consideration of the physiology and ecology of microbes. This course is designed to cover cell biology for liberal arts majors and microbiology for students preparing for careers in the allied health sciences.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Describe beneficial and harmful microorganisms impact on humans.	X	X	X		X		X	X	X			
2. Compare eukaryotic and prokaryotic microorganisms.	X	X	X		X		X	X	X			
3. Describe phenotypic properties of major microbial groups.	X	X	X		X		X	X	X			
4. Describe methods used for control of microbial growth.	X	X	X		X		X	X	X			
5. Describe how a pathogen spreads.	X	X	X		X		X	X	X			
6. Prepare culture media, apply aseptic technique, and gram stain procedure.	X	X	X		X		X	X	X			

SC 239 - Natural History of Palau

This course is about the natural environment of Palau. It introduces the student to the geological formation of the islands of Palau, the significance of oceanic distance between Palau islands and its neighboring islands and continents, and how it influences migration and immigration of terrestrial and marine organisms between islands. Students will better understand and develop appreciation of the importance of the major terrestrial and marine ecosystems to Palau's environment and culture. Students become aware of how island ecosystems function, and more importantly, how they are all interconnected. Through field observations, students gain knowledge and skills in identifying, by their scientific names, of some of the common terrestrial and marine flora and fauna of Palau. Students become aware of the richness of Palau's biodiversity by participating in simple field surveys and monitoring techniques. Through library research, online searches using search engines, and interviews with local experts, students increase their knowledge of some of Palau's indigenous, introduced, and endemic species. Students construct public education awareness power point presentations on selected flora and fauna of Palau, proposing practical solutions to conserve and protect Palau's biodiversity, and present to their peers.

CLO Students will be able to:	PLO						ILO						
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6	
1. KNOWLEDGE OF THE NATURAL ENVIRONMENT OF PALAU – Be literate and demonstrate familiarity of the natural environment of Palau, its geological formation, ecosystems, and indigenous, endemic, endangered, and invasive flora and fauna that inhabits the islands.	X	X	X		X	X	X	X	X	X			X
2. RESEARCH SKILLS – Actively learn outside of the classroom through library research, local interviews, and search using different internet search engines.	X	X	X		X	X	X	X	X	X			X
3. KNOWLEDGE SHARING – Share knowledge to diverse audience by preparing and presenting a community awareness presentation of a local	X	X	X		X	X	X	X	X	X			X

environmental issue to a local audience; student engages in community activities to experience possible solutions to local and global problems.													
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SC 249 - Environmental Concepts and Issues

This course introduces students to fundamental ecological concepts, how we interact with the Earth, and how we deal with environmental problems we face. Lectures and assignments give overviews of the major ecosystems on Pacific islands, their values, and environmental threats in the 21st century including global climate change, biodiversity, land use, waste management, and sustainability of resources. This course involves developing skill to analyze information and ideas, judge their validity and reliability, and make decisions. Students are required to apply critical thinking skills to distinguish between facts and opinions, evaluate evidence and arguments, take and defend informed positions on issues (local, regional, & global), integrate information and see relationships, and apply knowledge to dealing with new and different problems, and our lifestyle choices. Students will be required to undertake a research project and write a scientific research paper using the present MLA writing guidelines.

CLO Students will be able to:	PLO						ILO						
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6	
1. KNOWLEDGE: Be literate and conversant of the basic concepts of ecology, structure of a natural ecosystem, interrelatedness within an ecosystem and between ecosystems, the influences of human practices on our island ecosystems, renewable and nonrenewable resources, and sustainability of resources.	X	X	X		X	X	X	X	X	X	X	X	X
2. CONSTRUCTING AN ARGUMENT: Analyze and examine multiple perspectives of an environmental issue; creatively craft an opinion on the issue applying logic, wit, and skillfully present evidences that influence the audience's thinking and changes their minds	X	X	X		X	X	X	X	X	X	X	X	

or prompt some action.													
3. RESEARCH SKILLS: Actively learn outside of the classroom through library research and field projects.	X	X	X		X	X		X	X		X	X	
4. KNOWLEDGE APPLICATION AND SHARING: Share knowledge to diverse audience by preparing and presenting a community awareness presentation of a local environmental issue to a local audience; student engages in community activities to experience possible solutions to local and global problems.	X	X	X		X	X		X	X		X	X	X

Humanities

PW 101 - Conversational Palauan

This basic course provides practice in Conversational Palauan. It enables students to understand basic vocabulary and simple sentence structures, and to carry on basic conversations. Students will practice acceptable pronunciation and will learn and apply common phrase used in everyday social and business contacts.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Speak Palauan words and use basic greetings with acceptable pronunciation, simple sentence structure, and Palauan behavior.	X	X				X	X	X				
2. Understand Palauan words and phrases to send and receive messages in Palauan vernacular.	X	X				X	X	X		X		
3. Demonstrate knowledge of how Palauan language usage can be employed in; (a) Formal (b) Informal (c) Familial and community settings.	X	X				X	X	X		X	X	
4. Express simple phrases in the Palauan language in social settings and business context.	X	X				X	X	X	X			

PW 119 - Advanced Palauan Grammar

The purpose of this course is to teach Palauan orthography and grammar. These concepts will be taught through reading and writing exercises. It is designed for students with insufficient knowledge of the language's orthography and grammar.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Demonstrate critical thinking about proper use and setting of Palauan Grammar through writing a two to three pages essay utilizing proper Palauan spelling in the Palauan Orthography.	X	X		X		X	X				X	
2. Understand and articulate how culture, society, and diversity shape the role of language within society and human relations across Palauan Society.	X	X		X		X	X			X	X	
3. Knowledge of how Palauan Language can be employed in: a) familial (b) informal (c) familial and community setting using proper grammar and context.	X	X		X		X	X				X	
4. To conduct research on and communicate about Palauan Language and the changes the language has gone through and to access, evaluate, and manage that information to prepare and present effectively.	X	X		X		X	X	X	X	X	X	X

PH 169 - Introduction to Philosophy

This course covers the major areas of ethics, politics, religion, knowledge, and metaphysics through the study and discussion of works of some of the world's greatest thinkers such as Plato, Aristotle, Descartes, Hume, Kant, Spinoza, Kierkegaard, Hobbes, and Marx.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Understand and employ a wide range of humanistic, qualitative, quantitative, theoretical, or philosophical methods relative to introductory Philosophy for recording and explaining human experience.	X	X	X	X		X	X	X	X	X	X	X
2. Identify and assess their own and others values; identify the underlying premises in their own and others' arguments relative to introductory philosophy.	X	X	X	X		X	X	X	X	X	X	X
3. Conduct research and present philosophy topics and to access, evaluate, and manage information effectively.	X	X	X	X		X	X	X	X	X	X	X

PH 249 - General Logic

This course is designed to acquaint the student with simple forms of logical reasoning and common types of fallacious thinking, and to help the student form habits of thought that will improve his/her understanding of the written and spoken word.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Understand and employ a wide range of humanistic, qualitative, quantitative, theoretical, or philosophical methods relative to general logic for recording and explaining human experience.	X	X	X	X		X	X	X	X	X	X	X
2. Identify and assess their own and others values; identify the underlying premises in their own and others' arguments relative to general logic.	X	X	X	X		X	X	X	X	X	X	X
3. Conduct research and present general logic topics and to access, evaluate, and manage information effectively.	X	X	X	X		X	X	X	X	X	X	X

HI 159 - World Civilization I

A study of the political, social, economic, religious, intellectual and artistic trends in world civilization from the prehistoric period to 1500.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Demonstrate understanding of historical arguments relative to World Civilization and evaluate an argument's major assertions, its background assumptions, and the evidence used to support its assertions.	X	X	X	X		X	X	X		X		
2. Demonstrate understanding of historical/chronological change(s) relative to World Civilization and how culture, society, and diversity shape the role of the individual within society and human relations across cultures from a historical context.	X	X	X	X		X	X	X		X	X	
3. Demonstrate knowledge of how history relative to World Civilization can be employed to: (a) analyze historical change, (b) analyze historical problems, and (c) analyze and develop historical/social policies	X	X	X	X		X	X	X		X	X	
4. Conduct research on topics relative to World Civilization and to access, evaluate, and manage information to prepare and present their work effectively.	X	X	X	X		X		X	X			

HI 169 - World Civilization II

A study of political, social, religious, intellectual and artistic trends in world civilization from 1500 to the present.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Demonstrate understanding of historical arguments relative to World Civilization and evaluate an argument's major assertions, its background assumptions, and the evidence used to support its assertions.	X	X	X	X		X	X	X		X		
2. Demonstrate understanding of historical/chronological change(s) relative to World Civilization and how culture, society, and diversity shape the role of the individual within society and human relations across cultures from a historical context.	X	X	X	X		X	X	X		X	X	
3. Demonstrate knowledge of how history relative to World Civilization can be employed to: (a) analyze historical change, (b) analyze historical problems, and (c) analyze and develop historical/social policies.	X	X	X	X		X	X			X	X	
4. Conduct research on topics relative to World Civilization and to access, evaluate, and manage information to prepare and present their work effectively.	X	X	X	X		X		X	X			

HI 179 - History of Micronesia I

This course emphasizes the pre-colonial period of Micronesian history from Magellan's contact of Guam in 1521 to the beginning of Spanish rule in 1885. The Colonial Period, 1885-1980, is briefly surveyed.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Demonstrate critical thinking about historical arguments relative to the history of Micronesia and evaluate an argument's major assertions, its background assumptions, and the evidence used to support its assertions.	X	X	X	X		X	X	X		X		
2. Understand and articulate historical/chronological change(s) relative to the history of Micronesia and how culture, society, and diversity shape the role of the individual within society and human relations across cultures from a historical context.	X	X	X	X		X	X	X		X	X	
3. Demonstrate knowledge of how history relative to the history of Micronesia can be employed to: (a) analyze historical change, (b) analyze historical problems, and (c) analyze and develop historical/social policies.	X	X	X	X		X	X	X		X	X	
4. Conduct research on topics relative to the history of Micronesia and to access, evaluate, and manage information to prepare and present their work effectively.	X	X	X	X		X		X	X			

HI 189 - Palauan History & Culture

The course covers salient events with emphasis on the history and evolution of Palauan culture from 1200 CE to the present.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Demonstrate critical thinking about historical arguments relative to Palauan history and culture and evaluate an argument's major assertions, its background assumptions, and the evidence used to support its assertions.	X	X	X	X		X	X	X		X		
2. Understand and articulate historical/chronological change(s) relative to Palauan history and culture and how culture, society, and diversity shape the role of the individual within society and human relations across cultures from a historical context.	X	X	X	X		X	X	X		X	X	
3. Demonstrate knowledge of how history relative to Palauan history and culture can be employed to: (a) analyze historical change, (b) analyze historical problems, and (c) analyze and develop historical/social policies	X	X	X	X		X	X	X		X	X	
4. Conduct research on topics relative to Palauan history and culture and to access, evaluate, and manage information to prepare and present their work effectively.	X	X	X	X		X		X	X			

HI 209 - History of Micronesia II

This course emphasizes the post-colonial period of Micronesian History from Spain's formal claim of Micronesia in 1885 throughout the German, Japanese, and American Trust Territory administrations to the present COFA political status of Palau, FSM, and the Marshall Islands.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Demonstrate critical thinking about historical arguments relative to the history of Micronesia and evaluate an argument's major assertions, its background assumptions, and the evidence used to support its assertions.	X	X	X	X		X	X	X		X		
2. Understand and articulate historical/chronological change(s) relative to the History of Micronesia and how culture, society, and diversity shape the role of the individual within society and human relations across cultures from a historical context.	X	X	X	X		X	X	X		X	X	
3. Demonstrate knowledge of how history relative to the history of Micronesia can be employed to: (a) analyze historical change, (b) analyze historical problems, and (c) analyze and develop historical/social policies.	X	X	X	X		X	X	X		X	X	
4. Conduct research on topics relative to the history of Micronesia and to access, evaluate, and manage information to prepare and present their work effectively.	X	X	X	X		X		X	X			

HI 259 - American History: Post Civil War to Present

A study of the political, social, economic, religious, intellectual and development trends in the United States directly after the Civil War to the present.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Demonstrate critical thinking about historical arguments relative to American history (Post-Civil War) and evaluate an argument's major assertions, its background assumptions, and the evidence used to support its assertions.	X	X	X	X		X	X	X		X		
2. Understand and articulate historical/chronological change(s) relative to (Post-Civil War) American history and how culture, society, and diversity shape the role of the individual within society and human relations across cultures from a historical context.	X	X	X	X		X	X	X		X	X	
3. Demonstrate knowledge of how history relative to American history (Post-Civil War) can be employed to: (a) analyze historical change, (b) analyze historical problems, and (c) analyze and develop historical/social policies.	X	X	X	X		X	X	X		X	X	
4. Conduct research on topics relative to American history (Post-Civil War) and to access, evaluate, and manage information to prepare and	X	X	X	X		X		X	X			

present their work effectively.													
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VA 109 - Introduction to Visual Arts

This course includes the study of the world’s visual arts and their influences on the quality of life.

CLO Students will be able to:	PLO							ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6		ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Explain the purpose and importance of different types of art.	X	X		X				X	X		X	X	
2. Identify and analyze the elements of art and design.	X	X		X				X	X		X	X	
3. Analyze primary and secondary colors	X	X		X				X	X				
4. Analyze and critique artwork by different artists.	X	X		X				X	X		X	X	X
5. Sketch/draw/create different designs	X	X		X				X	X		X		X

MU 100 - Concert Choir

This course is designed to provide vocal instruction for students at all levels and according to their needs. Basic musicianship will be covered to a degree necessary for choral singing. The emphasis of the course is to acquaint the students with different styles of choral literature ranging from classical to Palauan music. The course will also provide opportunities for performance and to assist in realizing the student's full potential as a performer.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Demonstrate basic musicianship skills (music elements, choral sound, good performance techniques) in a performance setting.	X	X					X	X			X	
2. Demonstrate the factors involved in preparing pieces by Western and Palauan composers to a performance level.	X	X		X			X	X			X	X

MU 102 - Music Fundamentals

This course is an applied introduction to the fundamental elements of music. Students learn the basics of music reading, dictation, composition and score of familiarization in this studio course through project work. Western and island music literature and instruments are surveyed.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Identify and explain the basic fundamentals of musical reading & writing: pitch, duration, intensity, dynamics, rhythm & form.	X	X	X	X			X					
2. Demonstrate basic musical skills of sight reading (diatonic & chromatic scales, major & minor chords, use of accidentals, key signatures, transposition, intervals, rhythm) on the piano or electric keyboard.	X	X	X				X	X				
3. Demonstrate the basics of sound and their differences in different styles of music: classical & contemporary pieces; melody, harmony, chord structures, instrumentation, tone quality, form, basic song composition, cadences and phrases in a performance setting.	X	X		X			X	X			X	X

MU 106 - Music Appreciation

Introduction to different types of music created by great musicians from the Middle Ages to the present. Emphasis will be on Western music but taught in parallelism with Palauan music.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Explain and identify the major significance of each period of Western music from Middle Ages to the Twentieth Century: stylistic attributes, major composers, and contributing works.	X	X	X	X			X					
2. Explain and identify major evolutionary concepts of early Palauan music to present: Palauan music thru Spanish, German, Japanese & American eras, contextual significance of traditional and contemporary Palauan genres, and major Palauan composers & contributing works.	X	X	X	X			X	X				X
3. Identify and explain the focal comparisons between Western and Palauan music.	X	X	X	X			X				X	X

RE 169 - Introduction to World's Major Religions

This course introduces the students to the world's major religions including Hinduism, Buddhism, Shintoism, Confucianism, Taoism, Judaism, Islam and Christianity.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Demonstrate understanding of historical arguments relative to the world's major religions and evaluate an argument's major assertions, its background assumptions, the evidence used to support its assertions.	X	X	X	X		X	X	X		X	X	
2. Demonstrate understanding of historical/chronological change(s) relative to the world's major religions and how culture, society, and diversity shape the role of the individual within society and human relations across cultures from a historical context.	X	X	X	X		X	X			X	X	
3. Demonstrate understanding of how history relative to the world's major religions can be employed to: (a) analyze historical/religious change, (b) analyze historical/religious problems, and (c) analyze and develop historical/religious policies.	X	X	X	X		X	X			X	X	
4. Conduct research on religious history relative to the world's major religions and to access, evaluate, and manage the researched information to	X	X	X	X		X	X	X				

prepare and present their work effectively.													
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CH 109 - Conversational Chinese (Mandarin)

This fundamental course in the Chinese Language enables students to understand basic vocabulary and simple sentence structure. The students will practice acceptable pronunciation and will learn common phrases used in daily social and business contacts.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Phonetic Competence: Possess a good command of pronunciation and tones.	X	X				X		X				
2. Semantic Competence: Possess a good command of employing basic 50 – 100 words.	X	X				X		X		X		
3. Syntactic Competence: Possess a good command of basic sentence structures.	X	X				X		X		X		
4. Writing Competence: Possess a good command of writing the name and numbers in Chinese characters; possesses a good command of reading and writing in Pinyin system.	X	X				X		X		X		
5. Competence: Possess a good command of conducting conversations on different social and commercial settings.	X	X				X		X		X		

JP 109 - Conversational Japanese I

This fundamental course in the Japanese language enables the students to understand basic vocabulary and simple sentence structure. The student will practice acceptable pronunciation and will learn common phrases used in everyday social and business contacts.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Speak Japanese words with acceptable pronunciation.	X	X				X	X	X				
2. Understand what a Japanese speaker says	X	X				X	X	X				
3. Understand and use basic vocabulary, simple sentence structure, and Japanese people behavior.	X	X				X	X	X				
4. Speak with appropriate Japanese behavior.	X	X				X	X	X				
5. Express simple phrases in social and business contacts.	X	X				X	X	X				

JP 119 - Conversational Japanese II

This is a continuation of Conversational Japanese I. Instruction includes expansion of vocabulary and sentence structures used in everyday conversation, and intensive practice in pronunciation, listening, comprehension, and speaking to enable students to carry on coherent, simple conversations in Japanese. Katakana and Hiragana will be introduced.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Understand Japanese speakers	X	X					X	X				
2. Read and write Japanese Hiragana and Katakana characters.	X	X					X	X				
3. Understand and use expansion vocabulary and sentence structure.	X	X					X	X				
4. Speak with appropriate Japanese behavior with correct pronunciation.	X	X					X	X				
5. Express practical phrases in social and business contacts.	X	X					X	X				

JP 209 – Intermediate Japanese I

This is a continuation of Conversational Japanese II. In this course, students will learn to speak practical Japanese. In addition, this course will expose the students to Japanese culture, people and their way of thinking. Hiragana and Katakana will continue to be practiced, and some simple Kanji will be introduced as well.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Use practical sentence patterns.	X	X					X	X				
2. Explain about Japanese culture.	X	X				X	X			X		
3. Comprehend short paragraphs by listening to audio recording.	X	X					X	X				
4. Use Hiragana and Katakana with confidence.	X	X					X	X				
5. Read and write some simple Kanji.	X	X					X	X				

JP 219 – Intermediate Japanese II

This is a continuation of Intermediate Japanese I. In this course, students will learn to speak more practical Japanese. In addition, this course will continue to expose the students to Japanese culture, people and their way of thinking. The course will also provide deeper understanding of Japan. Reading and writing in Hiragana and Katakana will continue to be practiced, and more Kanji will be introduced.

CLO Students will be able to:	PLO							ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6		ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Speak intermediate level Japanese.	X	X						X	X				
2. Explain in detail about Japan and Japanese culture.	X	X				X		X			X		
3. Comprehend short paragraphs by reading.	X	X						X	X				
4. Use Hiragana, Katakana, and some Kanji characters with confidence.	X	X						X	X				
5. Read and write some Kanjis.	X	X						X	X				

Social Sciences

SS 100 - Introduction to College

This course will have two main components: First, it will offer students a variety of methods and suggestions to take control of their college experience and be successful. Second, the course will introduce students to the people and resources at PCC that they may need, and encourage them to investigate ways to make their time in college rewarding and productive.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Develop Individual Plan (IEP) that follows the semester-by-semester course offering and the sequence of courses based on their prerequisites and placement test results.	X	X					X		X			
2. Locate offices on campus that provide services to PCC students and identify the kind of services they provided.	X	X					X	X				
3. Identify essential skills necessary to be a successful student.	X	X					X	X	X	X	X	
4. Demonstrate an understanding of the academic standard policy and eligibility requirements for the available financial assistance.	X	X					X	X	X			

SS 109 - Marriage and the Family

A study of the relationships of men and women in courtship, marriage, and the family. The extended family as social units will be explored.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Define and explain the concepts of sociological study of the family including the various types of marriage and the nature of family across-cultures throughout history	X	X	X			X	X	X		X	X	
2. Identify and define core concepts like courtship/ pairing, premarital intimacy, intimate relationships, singlehood, sex, marriage and family.	X	X	X			X	X	X		X	X	
3. Explore and discuss diverse social issues in societies' affecting marriage and family such as cultural beliefs and values, mate selection, cohabitation, and decision to marry.	X	X	X			X	X	X		X	X	
4. Identify and explain life cycle of family from childbearing, childrearing, the middle years, aging and death and divorce and remarriage.	X	X	X			X	X	X	X			
5. Identify and discuss underlying causes of conflicts which can be detrimental to the marriage and family relationships such as finance, roles and responsibilities and the blend family or step-children.	X	X	X			X	X	X	X	X	X	

SS 119 - Introduction to Psychology

This course introduces the students to factors influencing human behavior, relationships, developmental stages, cognition processes, defense mechanisms and various psychotherapies

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Identify and discuss factors influencing human behavior by defining what psychology is, its goals, historical approaches, and cultural diversity. In addition, critique psychology and understand why it is a science.	X	X	X			X	X	X		X	X	
2. Identify and explain the relationship and functions between the brain and nervous system, evaluate how perception and consciousness affect human beings in their environment.	X	X	X			X	X	X		X	X	
3. Identify and explain various forms of behavioral learning like Classical, Operant and Cognitive approaches list and describe types of memories, impact of remembering and forgetting, intelligence, thought and language.	X	X	X			X	X	X		X	X	
4. Explain stages of developmental growth from infancy, childhood, adolescence and adulthood.	X	X	X			X	X	X	X			
5. Identify and describe various theorist, psychotherapies, defense mechanisms and cognitions process.	X	X	X			X	X	X		X		
6. Conduct research on social and behavioral relative to	X	X	X			X	X	X				

introductory to psychology and access, evaluate, and manage researched information to prepare and present their work effectively.													
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SS 129 - Introduction to Sociology

This course is a study of human society involving topics such as foundations of culture, social interaction, social controls and institutions, and social changes.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Identify and discuss foundations of human society which include sociological outlook, imagination, and culture as well as use of concepts in the social and behavioral sciences relative to introductory sociology.	X	X	X			X	X	X		X	X	
2. Define and explain how culture, socialization process, society, and diversity shape the role of the individual within society and human relations across cultures relative to introductory sociology.	X	X	X			X	X	X		X	X	
3. Identify and explain knowledge of social science relative to introductory sociology can be employed to: (a) analyzes social changes as well as analyzes social problems in order to develop social policies.	X	X	X			X	X	X		X	X	
4. Conduct research on social and behavioral sciences relative to introductory to Sociology and access, evaluate, and manage the	X	X	X			X	X	X	X			

researched information to prepare and present their work effectively.													
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SS 149 - Introduction to Political Science

This course is designed to help students understand the different political problems, systems, ideologies, and processes that exist in the world.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Demonstrate understanding of arguments in the social and behavioral sciences relative to introductory to political science and evaluate an argument’s major assertions, its background assumptions, the evidence used to support its assertions.	X	X	X			X	X	X		X	X	
2. Understand and articulate how culture, society, and diversity shape the role of the individual within society and human relations across cultures relative to Introductory to Political Science.	X	X	X			X	X	X		X	X	
3. Demonstrate knowledge of how social science relative to Introductory to Political Science can be employed to: (a) analyze social change, (b) analyze social problems, and (c) analyze and develop social policies.	X	X	X			X	X	X		X	X	
4. Conduct research on social and behavioral sciences relative to Introductory to Political Science and access, evaluate, and manage the researched	X	X	X			X	X	X	X			

information to prepare and present their work effectively.													
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SS 169 - Introduction to Archeology

This course is designed to acquaint students with the methods, theory and techniques of archeology to study prehistoric societies and explain cultural change through the study and use of the remains of fossils and artifacts with emphasis on the origin of Palauans.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Demonstrate understanding of arguments in the social and behavioral sciences relative to introductory to archaeology and evaluate an argument’s major assertions, its background assumptions, the evidence used to support its assertions.	X	X	X			X	X	X		X	X	
2. Understand and articulate how culture, society, and diversity shape the role of the individual within society and human relations across cultures relative to introductory to archaeology.	X	X	X			X	X	X		X	X	
3. Demonstrate knowledge of how social science relative to introductory to archaeology can be employed to: (a) analyze social change, (b) analyze social problems, and (c) analyze and develop social policies.	X	X	X			X	X	X		X	X	
4. Conduct research on social and behavioral sciences relative to introductory to archaeology and access, evaluate, and manage the researched information to prepare and present their work	X	X	X			X	X	X	X			

effectively.												
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SS 179 - Introduction to Social Anthropology

This course is a systematic study of how human beings interact with one another as a process of creation of groups, institutions, communities and societies. The course will focus the place of human beings within evolution and physical variations with emphasis on the Pacific. Consideration will be given to the interrelationship of cultural and biological factors.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Demonstrate critical thinking about arguments in the social and behavioral sciences relative to introductory to social anthropology and evaluate an argument's major assertions, its background assumptions, the evidence used to support its assertions.	X	X	X			X	X	X		X	X	
2. Understand and articulate how culture, society, and diversity shape the role of the individual within society and human relations across cultures relative to introductory to social anthropology.	X	X	X			X	X	X		X	X	
3. Demonstrate knowledge of how social science relative to introductory to social anthropology can be employed to: (a) analyze social change, (b) analyze social problems, and (c) analyze and develop social policies.	X	X	X			X	X	X		X	X	
4. Conduct research on social and behavioral sciences relative to introductory to social	X	X	X			X	X	X	X			

anthropology and to access, evaluate, and manage the researched information to prepare and present their work effectively.													
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SS 189 - Introduction to Cultural Anthropology

This course includes the nature of culture, the introduction of basic concepts for analyzing cultural behavior, cultural patterning and integration, and dynamics of culture. Current trends in interpretive anthropology of the Pacific will be explored.

CLO Students will be able to:	PLO						ILO						
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6	
1. Demonstrate critical thinking about arguments in the social and behavioral sciences relative to introductory to cultural anthropology and evaluate an argument's major assertions, its background assumptions, the evidence used to support its assertions.	X	X	X			X	X	X		X	X		
2. Understand and articulate how culture, society, and diversity shape the role of the individual within society and human relations across cultures relative to introductory to cultural anthropology.	X	X	X			X	X	X		X	X		
3. Demonstrate knowledge of how social science relative to introductory to cultural anthropology can be employed to: (a) analyze social change, (b) analyze social problems, and (c) analyze and develop social policies.	X	X	X			X	X	X		X	X		

4. Conduct research on social and behavioral sciences relative to introductory to cultural anthropology and access, evaluate, and manage the researched information to prepare and present their work effectively.	X	X	X				X	X	X				
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SS 201 - Human Growth and Development

This course is a comprehensive study of growth and development that examines the intricacies of heredity and environment interacting with a complex organism – the human being – over the passage of time. It is the blending of the physical, cognitive, and psychosocial facets that make up an individual and shape his/her destiny from conception through death.

CLO Students will be able to:	PLO						ILO						
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6	
1. Identify and discuss psychologists' theories concerning changes that occur in individuals over time and assumptions concerning the positive and negative effects of biological and environmental factors on human development.	X	X	X			X	X	X		X	X		
2. Identify and discuss prenatal development processes involving precursor of a new human being; genetic inheritance; stages of prenatal development; possible prenatal problems; nutritional requirements; environmental agents and diseases.	X	X	X			X	X	X		X	X		
3. List and describe types of genetic and chromosomal disorders; discuss their causes and effects; explain diagnostic assessment	X	X	X			X	X	X		X	X		

available.													
4. Identify and describe the unique physical, cognitive, and psychosocial characteristics of each age group; discuss its gender roles/responsibilities, nutritional requirements, health problems, disabilities, and available services.	X	X	X				X	X		X	X		

SS 203 - Comparative Government

This course covers the structures and operations of the government of U.S., Japan, selected republics from the former USSR, Tonga, and Nauru.

The governments are examined as potential forms of government of the three entities of Micronesia

CLO Students will be able to:	PLO						ILO						
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6	
1. Demonstrate critical thinking about arguments in the social and behavioral sciences relative to comparative government and evaluate an argument's major assertions, its background assumptions, the evidence used to support its assertions.	X	X	X			X	X	X		X	X		
2. Understand and articulate how culture, society, and diversity shape the role of the individual within society and human relations across cultures relative to comparative government.	X	X	X			X	X	X		X	X		
3. Demonstrate knowledge of how social science relative to comparative government can be employed to: (a) analyze social change, (b) analyze social problems, and (c) analyze and	X	X	X			X	X	X		X	X		

develop social policies.													
4. Conduct research on social and behavioral sciences relative to comparative government and access, evaluate, and manage the researched information to prepare and present their work effectively.	X	X	X			X		X	X	X			

SS 209 - Changes in Micronesia

This course covers the structure and operation of the present government systems in Micronesia. It covers foreign influences upon the cultures in Micronesia and the effect on the development of the present forms of government in the regional political entities.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Demonstrate critical thinking about arguments in the social and behavioral sciences relative to changes in Micronesia and evaluate an argument's major assertions, its background assumptions, the evidence used to support its assertions.	X	X	X			X	X	X		X	X	
2. Understand and articulate how culture, society, and diversity shape the role of the individual within society and human relations across cultures relative to changes in Micronesia.	X	X	X			X	X	X		X	X	
3. Demonstrate knowledge of how social science relative to changes in Micronesia can be employed to: (a) analyze social change, (b) analyze social problems, and (c) analyze and develop social policies.	X	X	X			X	X	X		X	X	

4. Conduct research on social and behavioral sciences relative to changes in Micronesia and access, evaluate, and manage the researched information to prepare and present their work effectively.	X	X	X			X	X	X				
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SS 229 - Contemporary Social Problems

This course is designed to help students acquire a general understanding of some of the critical problems that exist in our society and prepare them to become capable in coping with these phenomena. Emphasis will be on social problems that Micronesians are facing in their everyday lives.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Identify, define and discuss social problems, theoretical perspectives on social problems, research and future prospects-solving social problems	X	X	X			X	X	X		X	X	
2. Identify, define and analyze the family-related problems such as myths and facts, attitudes toward marriage and family, emerging family lifestyles, violence in family, and future prospect-solving problems.	X	X	X			X	X	X	X	X	X	
3. Identify, analyze and discuss social issues such as poverty, race & ethnic relations, gender and social inequality, age, sexual orientation and social inequality.	X	X	X			X	X	X	X	X	X	
4. Identify, explain, and analyze health and illness, alcohol and other drugs, crime and delinquency, prostitution, pornography and the sex trade.	X	X	X			X	X	X	X	X	X	

5. Identify, analyze and discuss related environmental and social problems such as population growth and urbanization, violence, war and terrorism.	X	X	X			X	X	X	X	X		
6. Conduct research on social and behavioral sciences relative to contemporary social problems and access, evaluate, and manage the researched information to prepare and present their work effectively.	X	X	X			X	X	X				

SS 259 - The American Political System

This course is designed to acquaint students with the structure, functions, and policy-making processes of the United States national governance, beginning with its revolutionary founding and theory, moving to its contemporary institutions, and concluding with policy processes. In addition, this course will facilitate the student’s research and writing abilities, including the ability to critique the scholarship of others, and develop an understanding of meaningful political participation. The major dilemmas and choices facing American policy makers and appropriate frameworks for analysis will be examined.

CLO	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
Students will be able to:												
1. Demonstrate critical thinking about arguments in the social and behavioral sciences relative to the American political system and evaluate an argument’s major assertions, its background assumptions, the evidence used to support its assertions.	X	X	X	X		X	X	X		X	X	
2. Understand and articulate how culture, society, and diversity shape the role of the individual within society and human relations across cultures relative to the American political system.	X	X	X	X		X	X	X		X	X	X

3. Demonstrate knowledge of how social science relative to the American political system can be employed to: (a) analyze social change, (b) analyze social problems, and (c) analyze and develop social policies.	X	X	X	X		X		X	X		X	X	
4. Conduct research on social and behavioral sciences relative to the American political system and access, evaluate, and manage the researched information to prepare and present their work effectively.	X	X	X	X		X		X	X	X			X

Communications

CO 110 - Introduction to Communication

This course addresses both theory and skill building, integrating various areas of the discipline, including interpersonal, small group, public speaking, interviewing, and mass communication. Students are introduced to fundamental topics such as the influence of context, elements of perception, effective listening, and verbal and non-verbal communication.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Describe the components of a typical communication situation involving two people.	X	X	X				X	X		X	X	
2. Describe how language (verbal & nonverbal) both facilitates and impedes the communication effort.	X	X	X				X	X		X	X	
3. Describe critical listening skills and the barriers to good listening.	X	X	X				X	X		X	X	
4. Describe how personal characteristics and interpersonal perceptions influence interpersonal relationships and communications.	X	X	X				X	X		X	X	

CO 201 - Mass Media and Society

This course is designed to introduce students to the fundamentals of communication theory and provides a foundation for understanding how the mass media works, how it influences society, how it can be analyzed and how it can be effectively used. Students apply these critical skills to their roles as responsible consumers.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Explain and compare the interpersonal communications and mass media communications processes.	X	X	X	X		X	X	X		X	X	
2. Explain the development of books, newspapers and magazines and their impact on society.	X	X	X	X		X	X	X		X	X	
3. Explain and compare the development of the movie and radio industries and their impact on society.	X	X	X	X		X	X	X		X	X	
4. Explain the influencing effects of mass media on individuals, politics, the public, and popular culture in the digital age.	X	X	X	X		X	X	X		X	X	

CO 205 - Intercultural Communication

This course presents the theory and insights into the practice of communication between persons of different cultures. It focuses on building intercultural communication competence by gaining understanding of differences in communication expectations, behaviors and values.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Define intercultural communities and its benefits. a. Healthier communities b. Increased commerce c. Reduced conflict d. Personal growth through tolerance	X	X	X	X		X	X	X		X	X	
2. Define the nature of culture and its properties of human communications. a. Process b. Dynamic c. Interactive transaction d. Symbolize e. Intentional f. Contextual g. Ubiquitous h. Cultural	X	X	X	X		X	X	X		X	X	
3. Explain the contextual model and define its five dimensions. a. Cultural b. Micro-cultural c. Environmental d. Perceptual e. Socio-relational	X	X	X	X		X	X	X		X	X	
4. Explain the relationship between culture and language (verbal and nonverbal), and how it differs across culture (to include its affects).	X	X	X	X		X	X	X		X	X	

CO 259 - Principles of Effective Speaking

This course is designed to introduce students to rhetorical theory and criticism and to guide students in the preparation and presentation of speeches in the various rhetorical modes.

CLO Students will be able to:	PLO							ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6		ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Present an effective speech.	X	X	X					X	X	X	X	X	X

Computer Tech

CS 100 - Computer Literacy

This course covers basic information processing and uses of computer including basic application software and the Internet. Topics include basic computer concepts, navigating in a Windows Operating System, and computer software including word processing, spreadsheet, data base and PowerPoint presentations.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Name the parts, both hardware and peripherals, and have a general knowledge of the history of the computer.	X	X	X				X	X	X			
2. Properly format Microsoft Word documents that include: text, graphics, columns and other supported objects.	X	X	X				X	X	X			X
3. Format and use appropriate functions to create spreadsheets along with graphs for Microsoft Excel.	X	X	X				X	X	X			X
4. Plan and design PowerPoint presentations that integrate texts, graphics and animations.	X	X	X				X	X	X			X
5. Format Microsoft Access databases by correctly using table design, report design and query.	X	X	X				X	X	X			X

CS 212 - Microcomputer Application

Two common computer applications are featured in this course: Excel and Access. Simple creation, editing, and printing of spreadsheets and database documents, as well as special techniques for using Excel and Access, will be explored.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Plan, design, and develop Excel workbooks.	X	X	X				X	X	X			X
2. Plan, design, and develop macros and web pages using Microsoft Excel.	X	X	X				X	X	X			X
3. Plan, design, and develop relational databases using Microsoft Access that are flexible, expandable, and mitigate redundant information.	X	X	X				X	X	X			X
4. Plan, design, and generate Microsoft Access database queries that select, update, and display information accurately.	X	X	X				X	X	X			X
5. Plan, design, and generate other Microsoft Access database objects utilizing built-in features and functions of the program.	X	X	X				X	X	X			X

CS 213 - Desktop Publishing

A desktop publishing course in which the student will apply basic concepts in combining text, drawings and images on a page to create letters, brochures, greeting cards and other publications. The primary software to be used will be Microsoft Publisher and/or Adobe PageMaker.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Discuss desktop publishing terminology, typography, and graphics.	X	X	X				X	X	X			
2. Edit a photo and create a blended photo.	X	X	X				X	X	X		X	X
3. Create and edit a publication.	X	X	X				X	X	X		X	X
4. Create and customize publications with Personal Information Sets.	X	X	X				X	X	X		X	X

IT 105 - PC Office Applications

This course provides software skills used in business related applications. It will provide advanced word processing and spreadsheets and introduce database and presentation software.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Generate extensive and properly formatted Microsoft Word documents that include texts, graphics, tables, mathematical formulas, and other supported objects.	X	X	X				X	X	X			X
2. Plan and develop elaborate spreadsheets that utilize complex built-in functions and features of Microsoft Excel.	X	X	X				X	X	X			X
3. Plan, design, and develop relational databases using Microsoft Access that are flexible, expandable, and mitigate redundant information.	X	X	X				X	X	X			X
4. Plan, design, and generate Microsoft Access database queries that select, update, and display information accurately.	X	X	X				X	X	X			X
5. Create substantial or multiple presentations that integrates texts, graphics, animations, other Microsoft Office files, and various objects supported by Microsoft PowerPoint.	X	X	X				X	X	X			X

IT 110 - Introduction to Programming

This course introduces microcomputer programming, including problem solving procedures, flowcharts and program designs, debugging, and program documentation.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Plan, design, diagram, and generate a flowchart of a possible solution to a given computer-programming assignment.	X	X	X				X	X	X			X
2. Identify areas where decision structures are required and plan and develop a flowchart and pseudocode for the decision structures to produce the desired output.	X	X	X				X	X	X			X
3. Identify areas where LOOPING structures are required and plan and develop flowchart and pseudocode for the LOOPING structures to produce the desired output.	X	X	X				X	X	X			X
4. Plan and develop complete pseudocode based on the solution that consists of all the procedures and components necessary to make the program run and function correctly.	X	X	X				X	X	X			X

IT 115 - Operating Systems and Networks

This course examines the role of Telecommunications, networks, and operating systems in management information systems. Strategies, tools, and techniques for network planning, implementation, management, maintenance, and security will be explored. Different types of networks including local area networks (LANs), wide area networks (WANs), metropolitan area networks (MANs), and enterprise-wide networks will be examined.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Identify and categorize different types of hardware and their functions.	X	X	X				X	X	X			
2. Identify different types of cables, capacity and speed, and their functionality/capability.	X	X	X				X	X	X			
3. Identify and compare different types of networks.	X	X	X				X	X	X			
4. Plan and design a computer network based on a given scenario.	X	X	X				X	X	X			X

IT 120 - Database Management Systems

This course introduces the file management and data structures involved in the design, implementation, and use of a database management system. Topics include file organization, data structures, program development, and security of data in creating, maintaining, and accessing a database.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Identify different types of databases and describe their characteristics.	X	X	X				X	X	X			
2. Identify and label different areas or sections of a database.	X	X	X				X	X	X			
3. Troubleshoot and correct database problems.	X	X	X				X	X	X			
4. Plan, design, and create a relational database.	X	X	X				X	X	X			X

IT 125 - Visual Basic Programming I

This course utilizes Visual Basic to introduce program development for business applications. It will emphasize structured programming principles, including internal and external program documentation. Implementation of objects and event-driven code will also be emphasized.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Design and develop a computer program by identifying and defining all needed variables.	X	X	X				X	X	X			X
2. Design and develop a computer program by identifying areas where decision structures are necessary and developing the structures.	X	X	X				X	X	X			X
3. Design and develop a computer program by identifying areas where LOOPING structures are necessary and developing the structures.	X	X	X				X	X	X			X
4. Plan and design a computer program by identifying areas where other programming statements are necessary and developing the statements.	X	X	X				X	X	X			X
5. Develop a syntactically and functionally correct computer program by implementing the selected solution that consists of all the procedures and components necessary to make the program run and function correctly and accurately.	X	X	X				X	X	X			X

IT 200 - Intermediate PC Office Applications

This course provides advanced software skills used in business-related applications. Continuing with the concepts and skills from IT 105, it provides advanced functions and applications in word processing, spreadsheets, and database management systems.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Plan and develop elaborate documents utilizing built-in and custom advanced features of Microsoft Word.	X	X	X				X	X	X			X
2. Plan and develop elaborate spreadsheets utilizing built-in and custom advanced functions and features of Microsoft Excel.	X	X	X				X	X	X			X
3. Plan, design, and develop relational databases using Microsoft Access that maximizes flexibility and minimizes redundancy.	X	X	X				X	X	X			X
4. Plan, design, and generate Microsoft Access query objects that create new table objects or selects, deletes, or inserts new records.	X	X	X				X	X	X			X
5. Plan, design, and generate other database objects utilizing advanced features and functions of Microsoft Access.	X	X	X				X	X	X			X

IT 205 - Visual Basic Programming II

This course continues with Visual Basic programming to write programs in a windows environment. It emphasizes programming custom user interfaces with menus and dialogue boxes, and explores object-oriented fundamentals and event-driven programming concepts, including work with object linking and embedding (OLE) and creation of an engine for database access. Other high level programming languages will also be introduced to give students the opportunity to compare Visual Basic to other popular languages.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Plan, design, and develop a syntactically and functionally correct program that utilizes the decision or selection structure (e.g. IF...ELSE statements).	X	X	X				X	X	X			X
2. Plan, design, and develop a syntactically and functionally correct program that utilizes the looping, repetition, or iteration structure (e.g. DO WHILE statements).	X	X	X				X	X	X			X
3. Plan, design, and develop a syntactically and functionally correct program that utilizes arrays.	X	X	X				X	X	X			X
4. Plan, design, and develop a syntactically and functionally correct program that utilizes sort methods.	X	X	X				X	X	X			X
5. Plan, design, and develop a syntactically and functionally correct program that connects to, retrieves values from, updates values in, and writes values to an underlying database.	X	X	X				X	X	X			X

IT 210 - MS Applications Using Visual Basic

This course covers how to write custom programs that link with other software. Topics include linking to other Windows applications, manipulating databases, and handling run-time errors.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Plan, design, and develop Word documents utilizing Visual Basic for Applications functions and capabilities.	X	X	X				X	X	X			X
2. Plan, design, and develop Excel workbooks utilizing Visual Basic for Application functions and capabilities.	X	X	X				X	X	X			X
3. Plan, design, and develop PowerPoint presentations utilizing Visual Basic for Applications functions and capabilities.	X	X	X				X	X	X			X
4. Plan, design, and develop Access databases utilizing Visual Basic for Applications functions and capabilities.	X	X	X				X	X	X			X

IT 215 - Web Management and Design

This course provides the tools and knowledge necessary to plan, design, and manage a web site. Students will learn web languages such as Hypertext Markup Language (HTML) and Cascading Style Sheet (CSS). Other web utilities will be explored including popular Content Management Systems (CMS).

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Plan, design, and create a website completely by writing HyperText Markup Language (HTML) and Cascading Style Sheet (CSS) codes.	X	X	X				X	X	X			X
2. Plan, design, and create custom graphics and images using Adobe Photoshop or other graphics editing software.	X	X	X				X	X	X			X
3. Examine and demonstrate an understanding of various web design and networking terminologies and jargons.	X	X	X				X	X	X			

IT 220 – Troubleshooting Microcomputer Systems

This course covers hardware and software troubleshooting. It emphasizes the use of diagnostic utilities, information backup, basic equipment servicing, hardware repairs and upgrades as well as software upgrades, and implementation of new technology.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Identify different types of hardware and their functions.	X	X	X				X	X	X			
2. Identify, diagnose, and fix computer problems.	X	X	X				X	X	X			X
3. Replace computer hardware.	X	X	X				X	X	X			
4. Examine and demonstrate an understanding of various troubleshooting terminologies and jargons.	X	X	X				X	X	X			

Health and Physical Education

HP 180 - Personal & Social Health

This course investigates significant physical and social health issues as related to the individual in a society. Emphasis is on critical thinking and analysis of health related behaviors and attitudes and enhancing the students' understanding of their own health needs.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Demonstrate an understanding of the components of health and the concepts of wellness and holistic health.	X	X	X		X		X	X			X	
2. Demonstrate an understanding of the components of fitness, benefits of exercise, and successfully develop a personal workout plan.	X	X	X		X		X	X		X		
3. Demonstrate an understanding of basic nutrition principles, the six essential nutrients; their sources and functions, and successfully develop a meal plan based on current dietary guidelines.	X	X	X		X		X	X			X	
4. Demonstrate an understanding of drug/alcohol dependence and nicotine addiction, risk factors for dependency, and characteristics/effects of common drugs abused.	X	X	X		X		X			X	X	
5. Demonstrate an understanding of HIV/AIDS and other common sexually transmitted infections (STIs), their causes, transmission, symptoms, treatments, and prevention.	X	X	X		X		X	X			X	

6. Demonstrate an understanding of the basics of psychological health, psychological disorders, stress and its effects on health, and techniques for managing stress.	X	X	X		X			X			X	X	
7. Successfully complete an “Analysis of Health – Related Information Project” using critical analysis skills based on the analysis model provided.	X	X	X		X			X	X				
8. Successfully complete a Behavior Modification Project	X	X	X		X			X	X			X	

HP 181 - First Aid/CPR

This course covers basic instructions in principles and skills essential to the individual for the care of emergencies in the home and community.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Demonstrate a Secondary Check on a partner.	X	X	X		X		X	X			X	
2. Demonstrate correct blocked airway techniques for an adult/child, and infant using appropriate manikin, partner, or self.	X	X	X		X		X	X			X	
3. Demonstrate Scene Size-Up. Primary Survey, and correct CPR techniques for adult/child, and infant using appropriate manikin.	X	X	X		X		X	X			X	
4. Demonstrate the proper technique to stopping bleeding.	X	X	X		X		X	X			X	
5. Demonstrate an understanding of the different types of wounds and the correct procedures for treatment.	X	X	X		X		X	X			X	
6. Demonstrate an understanding of Sudden Illness; Change in Responsiveness, Heart Attack, Stroke, Seizure, and Diabetic Emergencies and the correct procedures for treatment.	X	X	X		X		X	X			X	
7. Demonstrate an understanding of Heat-Related Emergencies and the correct procedures for treatment.	X	X	X		X		X	X			X	
8. Demonstrate an understanding of the types of burns (thermal, chemical and electrical), assessing the degree and extent	X	X	X		X		X	X			X	

of a burn, and the correct procedures for treatment.												
9. Describe bone, joint, and muscle injuries and the correct procedures for treatment.	X	X	X		X			X	X			X
10. Demonstrate the proper technique for applying 3 different splints.	X	X	X		X			X	X			X
11. Demonstrate the successful completion of certification requirements for First Aid and CPR certification.	X	X	X		X			X	X			X

HP 185 - Basic Nutrition

This course provides students with the fundamentals of nutrition with emphasis on cultural and social influences on nutritional intake, USDA guidelines for food and nutrition, the relationship between nutrition and health, and the importance of combining good diet with regular exercise in order to promote healthy lifestyles.

CLO Students will be able to:	PLO						ILO					
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	ILO 1	ILO 2	ILO 3	ILO 4	ILO 5	ILO 6
1. Describe the function and food sources for the six essential nutrients.	X	X	X		X		X				X	
2. Identify and discuss cultural and social influences on nutritional intake and health.	X	X	X		X		X			X	X	
3. Differentiate the three classification of vegetarian diet.	X	X	X		X		X	X		X	X	
4. Explain the current recommendation for healthy eating and the use of nutritional information.	X	X	X		X		X	X		X	X	
5. Demonstrate an understanding of Body Weight and its management.	X	X	X		X		X	X		X	X	