

Biological, Health Environmental Sciences

Course Number	Course Title	Order Num	Student Learning Outcome
BIOL 6A	Form and Function in the Biological World	1	Analyze and compare the process of homeostasis as applied to common physiological processes across higher taxonomy.
BIOL 6A	Form and Function in the Biological World	2	Develop observational skills in the context of scientific methodologies.
BIOL 6A	Form and Function in the Biological World	3	Contrast the Linnaen traditional phylogenetic and cladistic processes of taxonomy.
BIOL 6AH	Form and Function in the Biological World - HONORS	1	Analyze and compare the process of homeostasis as applied to common physiological processes across higher taxonomy.
BIOL 6AH	Form and Function in the Biological World - HONORS	2	Develop observational skills in the context of scientific methodologies.
BIOL 6B	Cell and Molecular Biology	1	Demonstrate the ability to use appropriate molecular biology techniques to answer research questions and to interpret and explain the results.
BIOL 6C	Ecology and Evolution	1	Design and complete an independent ecological research project.
BIOL 6CH	Ecology and Evolution - HONORS	1	Design and complete an independent ecological research project.
BIOL 10	Introductory Biology	1	Evaluate the correlation of structure and function in plants and animals.
BIOL 10H	Introductory Biology - HONORS	1	Evaluate the correlation of structure and function in plants and animals.
BIOL 11	Human Biology	1	Contrast the forms and functions of selected human organ systems from the molecular/cellular level to homeostasis at the organismal level.

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BIOL 11	Human Biology	2 Use scientific reasoning to evaluate the biological principles underlying current human health dilemmas, such as the causes of disease, use of biotechnologies, management of epidemics and public health, ecological/environmental health, and social health inequities.
BIOL 13	Marine Biology	1 Appraise the physical and chemical properties of the ocean and investigate their impact on marine life.
BIOL 13	Marine Biology	2 Compare and contrast the anatomy, behavior, reproduction, and ecology of selected marine invertebrates, vertebrates, plants, and protists.
BIOL 13	Marine Biology	3 Examine marine biology as a branch of the biological sciences and its relation to the scientific field and how the scientific method is used.
BIOL 15	California Ecology	1 Evaluate the impact of human behavior on California ecology.
BIOL 15	California Ecology	2 Evaluate ecological principles using California organisms.
BIOL 26	Introductory Microbiology	1 Evaluate and demonstrate the importance of aseptic techniques when working with microorganisms.
BIOL 26	Introductory Microbiology	2 Compare and contrast the shape, structure, nutritional and environmental requirements of bacteria, viruses, protozoa and fungi.
BIOL 26	Introductory Microbiology	3 Investigate host parasite relationships and assess their positive and negative impact on the participants.

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BIOL 40A	Human Anatomy and Physiology	1 Demonstrate the scientific method as employed by health professionals to evaluate real-world problems involving the skin, skeletal, and muscle systems.
BIOL 40A	Human Anatomy and Physiology	2 Investigate the roles of molecules, organelles, and cells in the function of skin, skeletal, and muscle tissues.
BIOL 40A	Human Anatomy and Physiology	3 Infer the homeostatic reactions of skin, skeletal, and muscle cells and tissues in reaction to external or internal changes in conditions.
BIOL 40B	Human Anatomy and Physiology	1 Demonstrate the ability to apply basic knowledge regarding the structure and function of the respiratory system to predicting its responses in maintaining homeostasis.
BIOL 40B	Human Anatomy and Physiology	2 Appraise the role of the cardiovascular system in maintaining homeostasis.
BIOL 40B	Human Anatomy and Physiology	3 Apply the structural organization of the the nervous system to how it processes information.
BIOL 40C	Human Anatomy and Physiology	1 Predict the homeostatic responses of the endocrine system to internal and external changes or stimuli.
BIOL 40C	Human Anatomy and Physiology	2 Appraise the role of the lymphatic and immune system in the body's defense to disease.
BIOL 40C	Human Anatomy and Physiology	3 Generalize the way in which nutrients are processes to perform various energetic and structural functions in the body.
BIOL 40C	Human Anatomy and Physiology	4 Integrate the structure and function of the kidneys in the regulation of fluid, electrolyte, and pH balance.

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BIOL 45	Introduction to Human Nutrition	1 Demonstrate a coherent understanding of the relationship between diet and the major chronic diseases.
BIOL 45	Introduction to Human Nutrition	2 Evaluate a meal plan or diet for meeting the criteria of a \ healthy diet.\""
BIOL 54G	Applied Human Anatomy and Physiology: Levels of Organiz	1 Define the characteristics of life and demonstrate an understanding of how homeostatic mechanisms are important to survival.
BIOL 54H	Applied Human Anatomy and Physiology: Support, Movem	1 Distinguish between the functions of the skeletal system and the muscular systems and evaluate the interrelationship of these two systems in producing movement.
BIOL 54I	Applied Human Anatomy and Physiology: Coordination anc	1 Apply principles of homeostasis and distinguish between the mechanisms that regulate hormones and cardiovascular function.
BIOL 54J	Applied Human Anatomy and Physiology: Absorption, Excre	1 Evaluate the anatomy and general functions of the human digestive system.
BIOL 77	Special Projects in Biology	1 Dependent on the nature of the project as determined in sections 3 & 4 of the Special Projects Contract.
BIOL 86	Special Projects in Experimental Biology	1 Dependent on the nature of the project as determined in sections 3 & 4 of the Special Projects Contract.
BIOL 87	Special Projects in Biology Education	1 Dependent on the nature of the project as determined in sections 3 & 4 of the Special Projects Contract.
NUTR 10	Contemporary Nutrition	1 Evaluate a meal plan or diet for meeting the criteria of a \ Healthy Diet\""
NUTR 10	Contemporary Nutrition	2 Evaluate nutrition claims about dietary supplement, food, or diet for accuracy and health enhancing potential.

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NUTR 62	Nutrition and Athletic Performance	1 Evaluate a meal plan or diet for meeting the nutritional needs of the athlete.
NUTR 62	Nutrition and Athletic Performance	2 Evaluate a dietary supplement, with claims of enhancing athletic performance.
NUTR 62G	Dieting (Sifting Fact from Fiction)	1 Analyze weight loss diets, programs and supplements, determining effective strategies for healthy and lasting weight loss.
ES 1	Introduction to Environmental Studies	1 Assess (apply) the criteria necessary to be successful in the Environmental Studies class.
ES 1	Introduction to Environmental Studies	2 Demonstrate a coherent understanding of environmental issues, their underlying causes and potential solutions from an interdisciplinary perspective.
ES 2	Humans, the Environment, and Sustainability	1 Assess (apply) the criteria necessary to be successful in the Humans, the Environment and Sustainability class.
ES 2	Humans, the Environment, and Sustainability	2 Analyze and communicate the relationships between our health and the health of the environment in order to apply this information in a civic and community setting.
ES 3	Imagery of the Environment	1 Appraise and communicate relationships between art history and environmental impacts - what art tells us about environmental change.
ES 6	Introduction to Environmental Law	1 Assess the criteria necessary to be successful in the Environmental Law class.

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ES 6	Introduction to Environmental Law	2 Investigate and communicate the relationship between an environmental issue and the environmental laws that apply in order to evaluate and analyze the application of that particular environmental law to the specified area.
ES 50	Introduction to Environmental Resource Management and	1 Assess (apply) the criteria necessary to be successful in the Introduction to Environmental Resource Management and Pollution Prevention class.
ES 50	Introduction to Environmental Resource Management and	2 Understand and communicate the elements, principles and practices involved with Environmental Resource Management and Pollution Prevention.
ES 56	Introduction to Environmental Health	1 Assess (apply) the criteria necessary to be successful in the Environmental Health and Justice class.
ES 56	Introduction to Environmental Health	2 Investigate and communicate the relationship between the community group's objectives and the interactions of the stakeholders in creating environmental solutions.
ES 58	Introduction to Green Building	1 Assess (apply) the criteria necessary to be successful in the Introduction to Green Building class.
ES 58	Introduction to Green Building	2 Investigate and communicate the relationship between the elements and principles of green building design, the economy, sustainability and society.
ES 61A	Environmental Resource Management and Pollution Preve	1 Assess (apply) the criteria necessary to be successful in the Environmental Resource Management and Pollution Prevention: Air, Water and Land class.

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ES 61A	Environmental Resource Management and Pollution Preve	2 Understand and communicate the elements, principles and practices involved with Environmental Resource Management and Pollution Prevention as it specifically relates to our basic air, water and land resources.
ES 61B	Environmental Resource Management and Pollution Preve	1 Assess (apply) the criteria necessary to be successful in the Environmental Resource Management and Pollution Prevention: Energy, Chemicals and Waste class.
ES 61B	Environmental Resource Management and Pollution Preve	2 Understand and communicate the elements, principles and practices involved with Environmental Resource Management and Pollution Prevention as it specifically relates to 1) our energy and chemical production and use and 2) prevention and management of our solid and hazardous waste.
ES 62A	Environmental Management Tools: Environmental Manage	1 Assess (apply) the criteria necessary to be successful in the Environmental Management Tools: Environmental Management Systems and Environmental Performance Metrics class.
ES 62A	Environmental Management Tools: Environmental Manage	2 Understand and communicate the elements, principles and practices involved with Environmental Management Systems and associated Environmental Performance Metrics.
ES 62B	Environmental Management Tools: CEQA and Environment	1 Assess (apply) the criteria necessary to be successful in the Environmental Management Tools: Environmental Impact Reports class.

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ES 62B	Environmental Management Tools: CEQA and Environment	2 Understand and communicate the elements, principles and practices involved with Environmental Impact Report (EIR) generation and use.
ES 62C	Environmental Management Tools: Environmental Site Ass	1 #1 Assess (apply) the criteria necessary to be successful in the Environmental Management Tools: Environmental Site Assessments class.
ES 62C	Environmental Management Tools: Environmental Site Ass	2 #2 Understand and communicate the elements, principles and practices involved with conducting, reporting and using the results of Environmental Site Assessments (ESAs).
ES 62D	Environmental Management Tools: Industrial Ecology and S	1 #1 Assess (apply) the criteria necessary to be successful in the Environmental Management Tools: Industrial Ecology and Sustainable Design class.
ES 62D	Environmental Management Tools: Industrial Ecology and S	2 #2 Understand and communicate the elements, principles and practices involved with Industrial Ecology and Sustainable Design.
ES 63	Agenda 21: Blueprint for Sustainability	1 Assess (apply) the criteria necessary to be successful in the Agenda 21: Blueprint for Sustainability class.
ES 63	Agenda 21: Blueprint for Sustainability	2 Demonstrate the ability to communicate the relationship between the elements, principles and agreements of the Agenda 21 and their role in designing a sustainable society.
ES 64	AB 32 (CA Global Warming Solutions Act of 2006)	1 Assess (apply) the criteria necessary to be successful in the AB 32 class.

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ES 64	AB 32 (CA Global Warming Solutions Act of 2006)	2 Demonstrate the ability to communicate the relationship between AB 32 law, history, values, stakeholders, and strategies to assist in implementing AB 32 (or like) targets and timetables.
ES 65	Environmental Stewardship	1 Assess the criteria necessary to be successful in Environmental Stewardship.
ES 65	Environmental Stewardship	2 Demonstrate the ability to communicate the relationship between Environmental stewardship principals and the role in designing a sustainable society.
ES 66	Environmental Leadership	1 Assess the criteria necessary to be successful in the Environmental Leadership class.
ES 66	Environmental Leadership	2 Demonstrate the ability to communicate the relationship between environmental leadership principles and practices and their role in designing a sustainable society.
ES 67	Environmental Team-Building	1 Assess (apply) the criteria necessary to be successful in the Environmental Team-Building class.
ES 67	Environmental Team-Building	2 Demonstrate the ability to communicate the relationship between environmental team-building and its role in environmental protection as an integral component of a sustainable society.
ES 68	Community-Based Coalitions and Stakeholders	1 Assess (apply) the criteria necessary to be successful in the Community-Based Coalitions and Stakeholders class.

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ES 68	Community-Based Coalitions and Stakeholders	2 Demonstrate the ability to communicate the relationship between environmental protection, community-based coalitions including the involvement by key stakeholders and long-term environmental regional planning.
ES 69	Energy Management Within Your Organization	1 Assess the criteria necessary to be successful in Energy Reliability.
ES 69	Energy Management Within Your Organization	2 Understand the process of continuous improvement in relation to an organization establishing an effective energy management plan.
ES 69	Energy Management Within Your Organization	3 Investigate and communicate the relationship between: energy efficiency, ethic justice principles, ecological and biological principles and evaluate the role of energy management in establishing and fostering sustainable society.
ES 69A	Introduction to Facilities Management	1 Assess the roles and responsibilities of Facility Managers and understand the technical and business skills required in the FM profession.
ES 69A	Introduction to Facilities Management	2 Analyze and understand the basics of building systems
ES 69A	Introduction to Facilities Management	3 Understand and demonstrate the cross functional nature of the successful facility manager and be able to identify internal stakeholders and external stakeholders the FM deals with.
ES 69A	Introduction to Facilities Management	4 Analyze and demonstrate how to manage and track customer relationships in Facility Management.

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ES 70	Introduction to Energy, Management, and Technology	1 Assess (apply) the value and components of a successful energy management program
ES 70	Introduction to Energy, Management, and Technology	2 Understand and be able to demonstrate knowledge of energy and energy efficiency principles, energy bills, auditing techniques, simple economic analyses, and energy conservation measures.
ES 70B	Advanced Energy Management Technology	1 Analyze environmental conditions using the psychrometric chart and processes, and relate observations of variances in the environment to energy use in buildings.
ES 70B	Advanced Energy Management Technology	2 Describe and compare energy concepts including heat transfer, change of state or phase change, balance point, emissivity, and delta flows.
ES 70B	Advanced Energy Management Technology	3 Analyze environmental conditions using the psychrometric chart and processes, and relate observations of variances in the environment to energy use in buildings.
ES 70B	Advanced Energy Management Technology	4 Describe and compare energy concepts including heat transfer, change of state or phase change, balance point, emissivity, and delta flows.
ES 71	The Building Envelope	1 Examine environmentally responsive building strategies and systems for controlling the indoor environment in order to provide comfort and health while minimizing energy use.
ES 71	The Building Envelope	2 Understand the fundamental scientific principles governing the thermal environment of buildings.

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ES 71	The Building Envelope	3 Analyze building energy calculations to provide maximum cost reduction, human comfort and worker productivity.
ES 71B	Advanced Building Envelope	1 Describe and distinguish the elements of the building envelope, including roof, walls, and glazing;
ES 71B	Advanced Building Envelope	2 Estimate the U-value, R-factor and C-value of various insulation materials
ES 71B	Advanced Building Envelope	3 Evaluate the benefits and challenges of implementing various sustainability strategies
ES 72	Heating, Ventilating and Air Conditioning (HVAC) Systems	1 Assess (apply) the criteria necessary to be successful in the Heating, Ventilation and Air Conditioning (HVAC) Systems class.
ES 72	Heating, Ventilating and Air Conditioning (HVAC) Systems	2 Demonstrate an understanding of energy efficiency principles, laws of thermodynamics, effective design of HVAC systems and a sustainable society utilizing energy efficient HVAC systems.
ES 72B	Advanced Heating, Ventilating and Air Conditioning (HVAC)	1 Examine and evaluate various energy efficiency or conservation measures as applied to HVAC systems
ES 72B	Advanced Heating, Ventilating and Air Conditioning (HVAC)	2 Calculate the amount of energy saved by implementing energy efficiency measures on both air side and water side systems
ES 73	Electric Motors and Drives	1 Assess (apply) the criteria necessary to be successful in the Electric Motors and Drives class.
ES 73	Electric Motors and Drives	2 Demonstrate an understanding of energy efficiency principles, economic analysis, basic principles of electricity, principles of electric motor design and the importance of a sustainable society utilizing energy efficient electric motor systems.

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ES 74	Lighting Distribution Systems	1 Understand basic lighting terminology and the relationships among light, vision, and color.
ES 74	Lighting Distribution Systems	2 Analyze the operation, performance, and application of various types of electric light sources, luminaires and lighting controls available today.
ES 74	Lighting Distribution Systems	3 Explore the factors associated with key lighting issues, such as sustainability, daylighting, lighting economics, codes and standards, and light and health.
ES 74B	Advanced Lighting Distribution Systems	1 Summarize advanced terminology, physics and principles of lighting
ES 74B	Advanced Lighting Distribution Systems	2 Evaluate energy use by various types of lighting systems and identify opportunities for energy efficiency measures
ES 75	Electric Power Systems	1 Demonstrate an understanding of energy efficiency principles, basic principles of electricity, principles of electric power generation and distribution and a sustainable society utilizing electric power systems.
ES 75	Electric Power Systems	2 Demonstrate an understanding of energy efficiency principles, basic principles of electricity, principles of electric power generation, distribution and a sustainable society utilizing efficient electric power systems.
ES 75B	Advanced Electric Power Systems	1 Assess the importance of load management and demand response in limiting peak load across the electrical grid

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ES 75B	Advanced Electric Power Systems	2 Synthesize information on the variables that inform load management and demand response projects including utility rates, climate, facility type, facility usage patterns and occupant satisfaction
ES 76	Energy Star Products	1 Assess (apply) the criteria necessary to be successful in the Energy Star Products class
ES 76	Energy Star Products	2 Demonstrate an understanding of the US EPA's Energy Star program principles, those affected by the program and how the program is implemented nationwide.
ES 76A	Solar Thermal Systems	1 Assess (apply) the criteria necessary to be successful in the Solar Thermal Systems class.
ES 76A	Solar Thermal Systems	2 Demonstrate an understanding of the basic principles of solar thermal energy, residential/utility scale solar system principles and a sustainable society utilizing.
ES 77X	Special Projects in Environmental Studies	1 Assess (apply) the criteria necessary to be successful in the Special Projects in Environmental Studies class.
ES 77X	Special Projects in Environmental Studies	2 Demonstrate the ability to communicate work place or field studies principles and practices learned from an Environmental Studies special project experience.
ES 78	Energy Management Systems and Controls	1 Assess (apply) the criteria necessary to be successful in the Energy Management Systems and Controls class.
ES 78	Energy Management Systems and Controls	2 Demonstrate an understanding of energy efficiency principles, principles of energy management, control system design and a sustainable society utilizing energy management and control systems.

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ES 78B	Advanced Energy Management Systems and Controls	1 Evaluate energy efficiency savings as a result of building control implementation.
ES 78B	Advanced Energy Management Systems and Controls	2 Summarize the terminology, physics and principles of building automation and control systems.
ES 79	Renewable and Alternative Energy Systems	1 Assess the positive impact renewable energy systems have in regard to Global Climate Change
ES 79	Renewable and Alternative Energy Systems	2 Demonstrate an understanding of the principles of renewable energy generation, economic analysis and a sustainable society utilizing renewable energy generation.
ES 80	California Field Studies	1 Identify ecosystem protection and policies as they relate to environmental and health effects on various species as well as on individuals, cultures, and society.
ES 80	California Field Studies	2 Identify and assess natural communities and watersheds in the California Floristic Province and demonstrate an understanding of the social and environmental parameters that affect these natural communities.
ES 81	Leadership in Energy and Environmental Design/Sustainabi	1 Describe the components of the Building Energy Efficiency Standards (Title 24, Section 6), the Appliance Code (Title 20), and the Green Building Code (Title 24, Part 11), and the building simulation requirements of each
ES 81	Leadership in Energy and Environmental Design/Sustainabi	2 Create a building model using a BEMS such as eQUEST, and employ that model to measure and evaluate various energy efficiency and demand response measures

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ES 82	Project Management and Technical Report Writing for Energy	1 Assess the purpose of the energy project leadership, audit report, scope of work, and level of detail required for the report
ES 82	Project Management and Technical Report Writing for Energy	2 Formulate prioritized recommendations that evaluate energy efficiency measure (EEM) recommendations in terms of energy savings and financial costs/ benefits to the client
ES 83	Energy Management Return on Investment	1 Use benchmarking tools to compare the Energy Use Intensity of buildings of similar type and climate, and illustrate typical energy use patterns of specific facility types
ES 83	Energy Management Return on Investment	2 Determine the cost of various energy efficiency measures, and calculate the value of them using various metrics
ES 84	Residential Solar Design and Installation	1 Analyze buy vs lease solar options and understand incentives and tax breaks
ES 84	Residential Solar Design and Installation	2 Explore OSHA 10 safety regulations and use of tools needed to install residential solar systems safely
ES 85A	California Native Plants and Animals	1 Demonstrate ability to identify California native plants and animals for 3 of the 12 California plant communities in the Cheeseman Environmental Studies Area.
ES 85A	California Native Plants and Animals	2 Illustrate ability to lead a group tour in the Cheeseman Environmental Studies Area with adequate identification of plants, animals, biotic and abiotic components of of the California plant communities.
ES 85B	Environmental Education Interpretive Training	1 Research the food webs, California flora and fauna of the 12 California plant communities in the Cheeseman Environmental Studies Area.

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ES 85B	Environmental Education Interpretive Training	2 Explain differences in the plant communities within the Cheeseman Environmental Study Area revealing an understanding plant adaptation to varying climates and habitats in California.
ES 85B	Environmental Education Interpretive Training	3 Demonstrate an understanding of native plant restoration of a selected ESA plant community through research and hands on experience of restorations practices including: weeding, mulching, soil tests, signage, planting and pruning.
ES 93	Sustainability Across the Curriculum	1 Assess (apply) the criteria necessary to be successful in the Sustainability Across the Curriculum class.
ES 93	Sustainability Across the Curriculum	2 Demonstrate the ability to communicate the strategies needed to implement sustainability across the curriculum in academic institutions and the critical role of education and educators in this process.
ES 95	Introduction to Environmental Careers	1 Compare, contrast, and identify the various transfer colleges and universities as well as the multitude of career options in environmental studies and sciences, especially as they relate to our three degree/certificate areas.
ES 95	Introduction to Environmental Careers	2 Demonstrate the ability to communicate the relationship between values, skills, environmental education, and environmental careers in order to play a role in furthering a sustainable society.
ES 95A	Environmental Studies Internship	1 Understand the importance of the community volunteer and internship service and experience.

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ES 95A	Environmental Studies Internship	2 Demonstrate the ability to communicate work place principles and practices learned from an internship experience.
ESCI 1	Environmental Science	1 Utilize the scientific method to demonstrate role of scientist and public to determine a strategy to create a sustainable society using scientific principles.
ESCI 1	Environmental Science	2 Utilize the environmental method to demonstrate role of scientist and public to determine a strategy to create a sustainable society using scientific principles.
ESCI 1L	Environmental Science Laboratory	1 In a outdoor laboratory setting; survey local open space areas such as major aquatic life zones (coastal wetlands, inland wetlands, coastal ocean, and riparian) and terrestrial biomes (grasslands, forests, savannah and transitional areas (ecotones)) and the impacts on these systems by humans; as well as human systems including sanitary landfills, sewage treatment facilities and others.
ESCI 19	Environmental Biology	1 Compare Environmental and ecological principles, concepts, and possible solutions and sustainable practices.
ESCI 20	Introduction to Biodiversity	1 Utilize the scientific principles to evaluate biological diversity and the methods to analyze the underlying cause of biodiversity loss and the trends to conserve it.

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ESCI 21	Biodiversity 2	1 Evaluate the long-term impacts on California's landforms and biodiversity of their major determinants, with the Pacific and Sierra acting as major physical/biological barriers.
ESCI 21	Biodiversity 2	2 Appraise the impacts of human activity affecting California's biodiversity, historically and today.
ESCI 30	Conservation Biology	1 Appraise current national and extra national conservation issues and critique solutions to stop and/or mitigate species decline or loss.
ESCI 30	Conservation Biology	2 Defend the importance of genetic diversity within species as a key conservation tool aiding species' long-term survival.
ESCI 50	Introduction to Wildlife Science Technology	1 Students will be able to communicate the importance of landscape connectivity.
ESCI 54	Wildlife Science Technician: Data Analysis	1 Students will be able to analyze data in a wildlife scenario.
ESCI 55	Wildlife Science Technician: Corridor Design	1 Students will be able to explain concepts and principles such as applying corridor and landscape design techniques.
ESCI 56	Wildlife Science Technician: Plant Survey Techniques	1 Students will be able to conduct plant survey techniques.
ESCI 57	Wildlife Corridor Technician: Wildlife Tracking	1 Assess (apply) the criteria necessary to be successful in the Wildlife Corridor Technician Wildlife Tracking class.
ESCI 57	Wildlife Corridor Technician: Wildlife Tracking	2 Students will research and analyze, in a field setting, the advanced tracking techniques utilized in wildlife corridor/connectivity assessments.

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ESCI 58	Wildlife Corridor Technician: Wildlife Tracking and Landscap	1 Assess (apply) the criteria necessary to be successful in the Wildlife Corridor Technician Wildlife Tracking and Landscape Linkages class.
ESCI 58	Wildlife Corridor Technician: Wildlife Tracking and Landscap	2 Students will research and analyze, in a field setting, wildlife tracking at a landscape connectivity level, and assess techniques utilized in wildlife corridor/connectivity studies statewide.
ESCI 61	Introduction to Photovoltaic (PV) Technology	1 Assess (apply) the criteria necessary to be successful in the Introduction to Photovoltaic Technology class.
ESCI 61	Introduction to Photovoltaic (PV) Technology	2 Investigate and communicate the fundamentals of solar electricity (including conversion of sunlight to electricity, solar potential and types of solar systems) and the role of this form of renewable energy in establishing a sustainable society.
ESCI 63	Photovoltaic (PV) Technology Field Project	1 Assess (apply) the criteria necessary to be successful in the Photovoltaic Technology class.
ESCI 63	Photovoltaic (PV) Technology Field Project	2 Investigate and communicate the relationship between the sun and the role of solar power in establishing a sustainable society.
ESCI 77	Special Projects in Environmental Science	1 Assess (apply) the criteria necessary to be successful in the Special Projects in Environmental Science class.
ESCI 77	Special Projects in Environmental Science	2 Demonstrate the ability to communicate work place or field studies principles and practices learned from an Environmental Science special project experience

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- ESCI 82 Central Coast Wildlife Corridors: Coyote Valley
- 1 Students will utilize wildlife field identification techniques including animal tracking, bird surveys and field observation to analyze the movement, activity and core corridor areas utilized by wildlife including along roads, highways, culverts and related structures within the Coyote Valley wildlife corridor.
- ESCI 87 Central Coast Wildlife Corridors: Diablo Range
- 1 Students will utilize wildlife field identification techniques including animal tracking, bird surveys and field observation to analyze the movement, activity and core corridor areas utilized by wildlife including along roads, highways, culverts and related structures within the Diablo Range wildlife corridor.
- ESCI 88 Central Coast Wildlife Corridors: Santa Cruz Mountains
- 1 Students will utilize wildlife field identification techniques including animal tracking, bird surveys and field observation to analyze the movement, activity and core corridor areas utilized by wildlife including along roads, highways, culverts and related structures within the Santa Cruz Mountains wildlife corridor.
- ESCI 90 Santa Clara County Field Studies: Tule Elk
- 1 Identify and assess tule elk natural history including habitat utilization, home range use, behavior, distribution and abundance. Demonstrate an understanding of the environmental parameters that affect the presence of this subspecies of North American elk.

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ESCI 92	Santa Clara County Field Studies: Raptors	<ol style="list-style-type: none">1 Identify and assess raptor natural history including habitat utilization, home range use, behavior, distribution and abundance. Demonstrate an understanding of the environmental parameters that affect the past and present distribution and abundance of raptors in Santa Clara County.
HTEC 50	Introduction to Health Technologies	<ol style="list-style-type: none">1 Develop the evolution, desirable characteristics and abilities of various roles of health technologies team members as it relates to the health care team.
HTEC 50	Introduction to Health Technologies	<ol style="list-style-type: none">2 Develop various methods of coping with loss.
HTEC 60A	Basic Medical Terminology	<ol style="list-style-type: none">1 Illustrate the word components of medical terminology.
HTEC 60A	Basic Medical Terminology	<ol style="list-style-type: none">2 Develop medical terms as they relate to the body's structure, diseases of the various body systems, medical specialties and medical specialists.
HTEC 60A	Basic Medical Terminology	<ol style="list-style-type: none">3 Demonstrate the interpretation of medical abbreviations.
HTEC 60G	Advanced Medical Terminology I	<ol style="list-style-type: none">1 Demonstrate the anatomy, physiology, and diseases of the digestive, urinary, female reproductive, male reproductive, nervous, sensory, and integumentary body systems.
HTEC 60G	Advanced Medical Terminology I	<ol style="list-style-type: none">2 Develop case studies that concern diagnostic, conditions, and diseases of systems and/or medical specialties.
HTEC 60H	Advanced Medical Terminology II	<ol style="list-style-type: none">1 Demonstrate the anatomy, physiology and diseases of the cardiovascular, respiratory, blood, lymphatic, musculoskeletal and endocrine systems.

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HTEC 60H	Advanced Medical Terminology II	2 Develop case studies that concern diagnostic conditions and diseases of systems and/or medical specialities.
HTEC 61	Medical Communications	1 Develop the various mechanical formats and guidelines used to prepare a medical history and physical report and design the information which appears in various medical reports.
HTEC 61	Medical Communications	2 Demonstrate words concerned with keyboarding, proofreading and editing of manuscripts and abstracts.
HTEC 64A	Clinical Laboratory Procedures I	1 Demonstrate the practice of proper application of OSHA standards during specimen collection.
HTEC 64B	Clinical Laboratory Procedures II	1 Identify the proper procedures for the collection of blood by venipuncture and capillary puncture.
HTEC 64B	Clinical Laboratory Procedures II	2 Recognize and address the potential problems encountered during venipuncture that can impact patient care.
HTEC 68	Medical Reception Externship	1 Demonstrate proper medical reception techniques in the clinical environment.
HTEC 68	Medical Reception Externship	2 Illustrate medicolegal principles and codes of ethics that must be considered in the daily operation of the doctors office.
HTEC 71	Medical Office Reception	1 Illustrate skills necessary to assist incoming and outgoing patients in the medical reception area of the doctor's office.
HTEC 71	Medical Office Reception	2 Demonstrate appropriate communication skills with patients and colleagues.

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HTEC 71	Medical Office Reception	3 Identify and discuss the advantages and disadvantages of the different types of appointment scheduling including demonstrating computer skills.
HTEC 72	Medical Office Financial Procedures	1 Illustrate diagnostic and procedural coding in the medical facility.
HTEC 72	Medical Office Financial Procedures	2 Illustrate eligibility, benefits guidelines for health insurance companies.
HTEC 73	Medical Law and Ethics	1 Illustrate medical ethics. Medical practice act, legal relationship of patient and physician, legal responsibilities of the health technology team member, professional liability, physicians civic duties and arbitration.
HTEC 74A	Medical Transcription with Editing I	1 Demonstration of knowledge of medical documentation, transcription, and editing skills.
HTEC 74B	Medical Transcription with Editing II	1 Demonstrate transcription with speech recognition editing skills necessary for medical office using actual dictation from Obstetrics and Gynecology, Dermatology, and Neurology Specialties.
HTEC 74C	Medical Transcription with Editing III	1 Demonstrate transcription with speech recognition editing skills necessary for the medical office using actual dictation from Oncology, Pulmonology, Otorhinolaryngology and Urology Specialties.

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HTEC 75	Electronic Health Records	1 Illustrate competence in the implementation of EHR, creating new documentation in an EHR, setting up EHR software using clinical and administrative tools, creation of templates for procedures and diagnosis , and importing of various documents into a patient's charts.
HTEC 76A	Advanced Medical Coding I	1 Demonstrate knowledge to code diagnoses using ICD-9-CM Coding Systems.
HTEC 76B	Advanced Medical Coding II	1 Explain the purpose of ICD-10-CM/PCS coding systems
HTEC 77	Special Projects in Health Technology	1 Develop in conjunction with student and instructor.
HTEC 80	Clinical Hematology Laboratory	1 Practice proper application of OSHA standards as pertains to the clinical hematology laboratory.
HTEC 80	Clinical Hematology Laboratory	2 Use proper technique and follow written laboratory procedures to perform Complete Blood Count (CBC) with differential and patelet estimate on a minimum of 2 normal blood samples.
HTEC 80	Clinical Hematology Laboratory	3 Identify abnormal CBC results and correlate to possible causes.
HTEC 80A	Clinical Hematology Lecture	1 Given patient history information and laboratory results identify the hematological disorder displayed by the patient.
HTEC 81	Clinical Urinalysis Laboratory	1 Practice proper application of OSHA standards appropriate for the clinical urinalysis laboratory.
HTEC 81	Clinical Urinalysis Laboratory	2 Perform routine urinalysis on a minimum of 2 normal urine samples with 100% accuracy to include both physical and chemical analysis.

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HTEC 81	Clinical Urinalysis Laboratory	3 Identify abnormal urinalysis results and correlate these results with possible causes.
HTEC 81A	Clinical Urinalysis Lecture	1 Given a diagram of the kidney, labels its parts, trace the path of blood flow and urine formation to include reabsorption and secretion.
HTEC 82	Clinical Coagulation Laboratory	1 Practice proper application of OSHA standards appropriate for the coagulation laboratory.
HTEC 82	Clinical Coagulation Laboratory	2 Analyze blood samples for Protime (PT) and Activated Partial Thromboplastin Time (APTT) following proper techniques and procedures.
HTEC 82	Clinical Coagulation Laboratory	3 Identify abnormal PT and APTT results and correlate to possible causes.
HTEC 82A	Clinical Coagulation Lecture	1 Evaluate laboratory data to distinguish between primary and secondary hemostasis disorders and defend your response.
HTEC 83	Clinical Microbiology Laboratory	1 Practice proper application of OSHA standards as pertains to the clinical microbiology laboratory.
HTEC 83	Clinical Microbiology Laboratory	2 Distinguish between normal flora and pathogenic bacteria for selected body sites
HTEC 83A	Clinical Microbiology Lecture	1 Given patient history information, specimen source and laboratory results including biochemical profile, media used, gram stain, and other selected identification results identify the microorganism isolated from the patient.

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HTEC 84	Clinical Immunology/Immunochemistry Laboratory	1 Practice proper application of OSHA standards as appropriate for the immunology/immunochemistry laboratory.
HTEC 84	Clinical Immunology/Immunochemistry Laboratory	2 Use proper technique and follow written laboratory procedures to perform all testing necessary to find a mock patient a compatible unit of blood.
HTEC 84A	Clinical Immunology/Immunochemistry Lecture	1 Correlate clinical significance of serologic test results with possible disease states.
HTEC 84A	Clinical Immunology/Immunochemistry Lecture	2 Given patient history and various immunochemistry testing evaluate the results and correlate them with various disease states.
HTEC 85A	Clinical Chemistry I Laboratory	1 Practice proper application of OSHA standards as appropriate in the chemistry laboratory.
HTEC 85A	Clinical Chemistry I Laboratory	2 Use proper techniques to perform serial dilution.
HTEC 85A	Clinical Chemistry I Laboratory	3 Using a spectrophotometer and proper techniques, dilute a given standard to establish a calibration curve. Analyze and determine the concentration of an unknown sample using the curve.
HTEC 85B	Clinical Chemistry II Laboratory	1 Practice proper application of OSHA standards as appropriate in a clinical chemistry laboratory.
HTEC 85B	Clinical Chemistry II Laboratory	2 Use troubleshooting skills to identify potential errors in laboratory testing.
HTEC 85C	Clinical Chemistry I Lecture	1 Identify sources of error in clinical laboratory testing and classify them as pre-analytical, analytical and post-analytical.

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HTEC 85D	Clinical Chemistry II Lecture	1 Given patient history and chemistry laboratory testing results, identify normal and abnormal results and correlate these results with possible disease states.
HTEC 90G	Basic Patient Care	1 Demonstrate the regulation and measurement of vital signs.
HTEC 90H	Medical Office Sterile Technique	1 Demonstrate the application of sterile gloves, sterilization of instruments that are used in minor surgery.
HTEC 91	Medical Office Diagnostic Tests	1 Illustrate common terms used in electrocardiography, physical therapy and radiology procedures.
HTEC 91	Medical Office Diagnostic Tests	2 Illustrate the structure and electrical conduction system of the heart.
HTEC 91	Medical Office Diagnostic Tests	3 Demonstrate measuring and assessing heart rhythms using an electrocardiograph including analyzing normal and abnormal electrocardiograms.
HTEC 93	Pharmacology for Medical Assistants	1 Demonstrate dosage calculation, drug legislation and standards, drug preparations and information affecting various body systems.
HTEC 94	Administration of Medications	1 Illustrate pertinent anatomy and physiology and choice of equipment for injections.
HTEC 94	Administration of Medications	2 Demonstrate proper techniques, hazards and complications, post-treatment and test patient of a minimum of 10 intramuscular, 10 subcutaneous and 10 intradermal injections.
HTEC 95A	Medical Assisting Externship	1 Demonstrate proper Medical Assisting techniques in the clinical environment.

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HTEC 95A	Medical Assisting Externship	2 Illustrate medicolegal principles and codes of ethics that must be considered in the daily operation of the clinical facilities.
HTEC 95B	Phlebotomy Technician I Externship	1 Demonstrate proper Phlebotomy Technician I techniques in the clinical environment.
HTEC 95B	Phlebotomy Technician I Externship	2 Illustrate medicolegal principles and codes of ethics that must be considered in the daily operation of the clinical facilities.
HTEC 96A	Medical Assisting Externship	1 Demonstrate proper Medical Assisting techniques in the clinical environment.
HTEC 96A	Medical Assisting Externship	2 Illustrate medicolegal principles and codes of ethics that must be considered in the daily operation of the clinical facilities.
HTEC 96B	Medical Secretarial Externship	1 Demonstrate proper Medical Secretary techniques in the clinical environment.
HTEC 96B	Medical Secretarial Externship	2 Illustrate medicolegal principles and codes of ethics that must be considered in the daily operation of the clinical facilities.
HTEC 96C	Medical File Clerk Externship	1 Demonstrate proper Medical File Clerk techniques in the clinical environment.
HTEC 96C	Medical File Clerk Externship	2 Illustrate medicolegal principles and codes of ethics that must be considered in the daily operation of the clinical facilities.
HTEC 96D	Medical Record Clerk Externship	1 Demonstrate proper Medical Record Clerk techniques in the clinical environment.
HTEC 96D	Medical Record Clerk Externship	2 Illustrate medicolegal principles and codes of ethics that must be considered in the daily operation of the clinical facilities.
HTEC 96E	Business Office Clerk Externship	1 Demonstrate proper Business Office Clerk techniques in the clinical environment.
HTEC 96E	Business Office Clerk Externship	2 Illustrate medicolegal principles and codes of ethics that must be considered in the daily operation of the clinical facilities.

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HTEC 96F Insurance and Coding Externship	1 Demonstrate proper Insurance and Coding techniques in the clinical environment.
HTEC 96F Insurance and Coding Externship	2 Illustrate medicolegal principles and codes of ethics that must be considered in the daily operation of the clinical facilities.
HTEC 96G Medical Transcription Externship	1 Demonstrate proper Medical Transcription techniques in the clinical environment.
HTEC 96G Medical Transcription Externship	2 Illustrate medicolegal principles and codes of ethics that must be considered in the daily operation of the clinical facilities.
HTEC 96H EKG Externship	1 Demonstrate proper EKG techniques in the clinical environment.
HTEC 96H EKG Externship	2 Illustrate medicolegal principles and codes of ethics that must be considered in the daily operation of the clinical facilities.
HTEC 101A Skill Building in Clinical Laboratory Procedures II	1 Consistently apply the OSHA Bloodborne Pathogen Standard during the collection of blood specimens.
HTEC 101A Skill Building in Clinical Laboratory Procedures II	2 Demonstrate the proper procedures for the collection of blood by venipuncture and capillary puncture.
HTEC 101B Skill Building in Basic Patient Care	1 Demonstrate vital signs and various procedures performed in the medical office.
HTEC 101C Skill Building in Medical Communications	1 Demonstrate a level of competence in the skills learned in Medical Communications and in preparation for Medical Transcription.
HTEC 101D Skill Building in Medical Office Financial Procedures	1 Demonstrate billing and collection procedures and the various steps in preparing insurance claim forms.
HTEC 101D Skill Building in Medical Office Financial Procedures	2 Illustrate the ICD-10 and CPT codes used in medical office.

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HTEC 101E Skill Building in Medical Office Sterile Technique	1 Demonstrate the proper techniques in wrapping instruments and in sterile tray set up.
HTEC 101F Skill Building in Medical Office Diagnostic Tests	1 Demonstrate measuring and assessing heart rhythms using an electrocardiograph including analyzing normal and abnormal electrocardiograms.
HTEC 101H Skill Building in Medical Transcription and Editing I	1 Demonstration of knowledge of medical documentation, transcription, and editing skills.
HTEC 101J Skill Building in Medical Transcription and Editing II	1 Demonstration of knowledge of medical documentation, transcription, and editing skills.
HTEC 101K Skill Building in Medical Transcription and Editing III	1 Demonstration of knowledge of medical documentation, transcription, and editing skills.
HTEC 101L Intermediate Skill Building in Clinical Laboratory Procedure:	1 Demonstration of knowledge of the proper collection and handling of blood specimens while speed and accuracy is increased.
HTEC 101M Advanced Skill Building in Clinical Laboratory Procedures II	1 Demonstration of knowledge of the proper collection and handling of blood specimens while speed and accuracy is increased.
HTEC 110 Health Technologies Employment Preparation	1 Illustrate steps involved in seeking employment in medical facilities which include preartion of resumes and interviewing and preparation for certification examinations.

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HTEC 180	Clinical Hematology/Urinalysis/Coagulation Practicum	1 Safely and accurately perform analytical procedures in Clinical Hematology/Urinalysis/Coagulation departments identifying normal and abnormal lab tests and factors affecting results and take appropriate action.
HTEC 183	Clinical Microbiology Practicum	1 Safely and accurately perform analytical procedures in Clinical Microbiology identifying normal and abnormal lab tests and factors affecting results and take appropriate action.
HTEC 184	Clinical Immunology/Immunoematology Practicum	1 Safely and accurately perform analytical procedures in Clinical Immunology/Immunoematology identifying normal and abnormal lab tests and factors affecting results and take appropriate action.
HTEC 185	Clinical Chemistry Practicum	1 Safely and accurately perform analytical procedures in Clinical Chemistry department identifying normal and abnormal lab tests and factors affecting results and taking appropriate action.
NURS 50	Career Opportunities in Nursing	1 Differentiate among the various nursing educational programs both the educational preparation and scope of nursing practice.
NURS 77	Special Projects in Nursing	1 Achieve a score of 80% or better on sample NCLEX exam.
NURS 81	Fundamental Nursing (Non-Acute/Sub-Acute Care)	1 Incorporate patient teaching into the plan of care for a health-deviation of a non-acute elderly client.

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NURS 81	Fundamental Nursing (Non-Acute/Sub-Acute Care)	2 Incorporate cultural assessment as part of a holistic approach to assessment of client biopsychosocial healthcare needs.
NURS 81L	Fundamental Nursing (Non-Acute/Sub-Acute Care Clinical)	1 Following college regulations and facility protocols, provide safe and client-centered nursing care for one or two patients in a non-acute care setting.
NURS 81L	Fundamental Nursing (Non-Acute/Sub-Acute Care Clinical)	2 Using Orem's model of nursing and the nursing process, determine client-specific plans of care.
NURS 81P	Pharmacology I	1 Using Orem's model of nursing, apply the nursing process to 2 specific groups of medications.
NURS 81P	Pharmacology I	2 Accurately calculate the correct dose of medication.
NURS 82	Acute Fundamentals/Medical Surgical I	1 Provide ideal nursing care to perioperative patients.
NURS 82	Acute Fundamentals/Medical Surgical I	2 Plan appropriate nursing care for patients with fluid and electrolyte imbalances.
NURS 82L	Acute Fundamentals/Medical Surgical I (Clinical)	1 Demonstrate safe administration of parenteral medications.
NURS 82L	Acute Fundamentals/Medical Surgical I (Clinical)	2 Demonstrate assessment of a perioperative patient using Orem's theory.
NURS 82L	Acute Fundamentals/Medical Surgical I (Clinical)	3 Demonstrate safe and competent care of one patient in the acute care setting.
NURS 82P	Pharmacology II	1 Students will integrate pharmacological concepts in the clinical setting.
NURS 82P	Pharmacology II	2 Students will apply theoretical knowledge about medication interactions during examinations and quizzes.
NURS 83	Perinatal Nursing	1 Apply the theoretical knowledge of pregnancy, birth physiology and perinatal care to specific patient care situations.

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NURS 83A Pediatric Nursing	1 Compare the physiologic, cognitive, and psychosocial stages of a toddler and a preschooler.
NURS 83A Pediatric Nursing	2 Differentiate the common etiologies of morbidity and mortality in children.
NURS 83AL Pediatric Nursing (Clinical)	1 Construct a concept map for a child diagnosed with head trauma from a motor vehicle accident (MVA).
NURS 83AL Pediatric Nursing (Clinical)	2 Demonstrate a focused physical assessment of an infant admitted with respiratory distress.
NURS 83L Perinatal Nursing (Clinical)	1 Employ the nursing process in assisting clients to meet universal, developmental and health deviations self-care requisites during the perinatal period.
NURS 83P Pharmacology III	1 Incorporate medication evaluation and patient/family teaching into care of the maternal and child population patients.
NURS 83P Pharmacology III	2 Accurately calculate the correct doses of medications for the maternal and child populations.
NURS 83PL Pharmacology III Laboratory	1 Following universal precautions and nursing standards of care, successfully insert, secure and maintain six (6) intravenous catheters.
NURS 83PL Pharmacology III Laboratory	2 Following OSHA protocols, maintain an injury-free environment during intravenous insertion and blood-draw procedures.
NURS 84 Medical/Surgical II (Care of the Older Adult)	1 Apply legal and ethical principles to an ethical dilemma.

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NURS 84	Medical/Surgical II (Care of the Older Adult)	2 Utilizing the nursing process, analyze and apply principles of normal aging in designing a plan of care for an older adult experiencing a chronic health problem.
NURS 84C	Critical Thinking in Nursing	1 Correctly apply critical thinking skills to patient care scenarios.
NURS 84L	Medical/Surgical II (Care of the Older Adult) - Clinical	1 Apply age-related changes and developmental tasks to formulate a plan of care for an older adult.
NURS 84L	Medical/Surgical II (Care of the Older Adult) - Clinical	2 Analyze comprehensive assessment data to identify real problems and predict and minimize potential problems.
NURS 85	Advanced Medical-Surgical Concepts	1 Apply the nursing process for adult clients with major respiratory illnesses.
NURS 85	Advanced Medical-Surgical Concepts	2 Apply the nursing process for adult clients with major cardiac disease.
NURS 85	Advanced Medical-Surgical Concepts	3 Apply the nursing process for adult clients with complications of diabetes and acute renal disease.
NURS 85A	Psychiatric/Mental Health Nursing (Theory)	1 Apply own cultural background to concepts of mental health and mental illness.
NURS 85A	Psychiatric/Mental Health Nursing (Theory)	2 Design a critical thinking component in relation to the nursing care of a patient with a given psychiatric diagnosis.
NURS 85A	Psychiatric/Mental Health Nursing (Theory)	3 Demonstrate knowledge of Alcoholics Anonymous meetings and identify professional implications for the nurse.
NURS 85AL	Psychiatric/Mental Health Nursing (Clinical)	1 Demonstrate the use of the nursing process, from assessment through evaluation, as applied to a patient with a psychiatric diagnosis.
NURS 85AL	Psychiatric/Mental Health Nursing (Clinical)	2 Identify concepts that link learning in the clinical setting to knowledge gained from the course textbook.

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NURS 85AL Psychiatric/Mental Health Nursing (Clinical)	3 Analyze own personal responses to selected clinical observations and experiences.
NURS 85L Advanced Medical-Surgical Clinical	1 Analyze the basic and comprehensive assessment of acutely ill adult client to determine the appropriate nursing care.
NURS 85L Advanced Medical-Surgical Clinical	2 Using the nursing process provide safe and competent care of two patients in the clinical setting.
NURS 86 Leadership/Management in Nursing	1 Demonstrate beginning management skills in nursing.
NURS 86 Leadership/Management in Nursing	2 Demonstrate beginning leadership skills in nursing.
NURS 86L Leadership/Management Clinical Component	1 Provide safe and effective nursing care to 75-100% of a typical nursing patient load in clinical setting
NURS 86L Leadership/Management Clinical Component	2 Using Orem's model of nursing, apply the nursing process to assigned clinical setting
NURS 151 Nursing Laboratory Skills for Fundamental (Non-Acute) Nur	1 Demonstrate competent administration of nonparenteral medications, aseptic techniques, vital signs and verification of nasogastric tube placement
NURS 152 Nursing Laboratory Skills for Fundamental Acute Nursing	1 Demonstrate competent administration of parenteral medications, sterile procedures, insertion of tubes such as nasogastric tube and chest tubes, use of monitoring devices such as glucometers and telemetry.
NURS 153 Nursing Laboratory Skills for Pediatric and Perinatal Patient	1 Demonstrate advanced assessments related to the pediatric patient and the perinatal patient.

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NURS 154 Nursing Laboratory Skills for Care of the Older Adult in an A

1 Demonstrate competency in the management of central intravenous catheter procedures, intravenous push medications, soft restraints and advanced sterile procedures.