

Course Mapping- OnlineDegree.com and Peirce College

OnlineDegree.com Course Title	Peirce Equivalency	Learner Outcomes	NCCRS Credit Recommendation
Astronomy- Introduction to Cosmology (AS101)	SCI ELECTIVE	Upon successful completion of the course, students will be able to: define and classify cosmic objects; analyze different cosmological theories; reconstruct the development of cosmological theories from pre-scientific epochs to modern times; identify the challenges associated with the scientific approach to cosmological models; explore different astrophysical objects and determine their nature; interpret the distance scales in the Universe; examine the nature of stars and their evolution; develop awareness of the size scales in the Universe; recognize the contribution of Ordinary matter, Dark Matter and Dark Energy and develop a sense of their contribution to the evolution of the Universe; appraise the evolution of the models of cosmology as a function of the historical technological developments; and describe how the Universe and its structures form and evolve into the Universe observable today.	In the lower division baccalaureate/associate degree category, 3 semester hours in Introduction to Astronomy, Cosmology, or as a General Science Elective
Biology- Organisms and Ecosystems (BG101)	SCI 105	Upon successful completion of the course, students will be able to: explore the evolution and natural selection of species on Earth; analyze speciation and demonstrate how adaptation has occurred over the years; explore the fossils of the Earth and determine what caused extinction in certain species; recognize the Hardy-Weinberg Principle and examine how it is applied in nature; identify the effects of genetic drift and gene flow; differentiate effects of non-random mating and creation of subspecies; examine the phylogenetic tree and how the tree branches; compare and contrast homoplasy and heteroplasmy in species; organize the bacteria, archaea, protists and plant kingdom life cycles and means of sexual and asexual reproduction; and distinguish and classify species characteristics of gymnosperms, angiosperms, fungi, and insects.	In the lower division baccalaureate/associate degree category, 3 semester hours in Environmental Science, Biology, or General Science
Business- Introduction to Accounting and Finance (BS102)	ACC 101	Upon successful completion of the course, students will be able to: demonstrate an understanding of the foundational principles of accounting; apply the accounting equation to transform business transactions into usable information; identify the foundational accounting concepts and principles through analyzing certain business situations; locate public company financial statements and read and analyze financial statements; examine and compare income statements, balance sheets, and statement of cash flows; define and apply the accounting elements associated with accounts receivables and payables; identify and distinguish property, plant and equipment; distinguish between current and noncurrent assets; recognize and describe the differences between debt and equity; account for bonds and capital stock; describe the types of business transactions that are included in operating, investing, and financing activities on the statement of cash flows; identify approaches for evaluating investment opportunities; and describe the valuation process for company stocks.	In the lower division baccalaureate/associate degree category, 3 semester hours in Introduction to Accounting, Business Administration, Economics, Introduction to Finance, Principles of Finance, or Human Resources
Business- Introduction to Strategy and Marketing (BS101)	MKT 101	Upon successful completion of the course, students will be able to: analyze available information and select appropriate strategies and provide reasons for choosing a particular strategy; identify how companies create and sustain competitive advantage through specific strategies; understand the key determinants of strategy formulation and implementation and identify major steps in the process; integrate the different business disciplines to comprehend the overall performance of the company; compare and contrast company performances and strategic methods and provide recommendations; examine the role of marketing within a firm; identify key market segmentation and targeting strategies; apply the elements of the marketing mix (4P's) and strategies used; create a comprehensive marketing strategy for a new product or service with an appropriate combination of the 4P's; and identify key trends impacting consumers and the practice of marketing to established theory.	In the lower division baccalaureate/associate degree category, 3 semester hours in Business, Marketing, Marketing Communications, Marketing Research or Sales Management
Computer Science- Introduction to Programming (CS101)	BIS 112	Upon successful completion of the course, students will be able to: describe the concepts of structural programming and apply those concepts to implement and test structured programs; apply the concepts of object oriented programming to judge appropriate methods of implementation for a given program or solution; apply programming idioms such as variables, loops, graphs, methods/functions and input/output; and construct efficient programs for real world applications; evaluate programs to investigate issues and rectify errors; design and implement various data structures using classes and their objects to solve real world problems; design and develop various games using standard library and packages such as pygame, turtle, etc.; develop and implement one's own algorithm; and adapt and combine standard algorithms to solve a given problem.	In the lower division baccalaureate/associate degree category, 3 semester hours in Computer Science and Information Systems (218).
Criminal Justice- Cybersecurity and Cybercrime (CJ103)	IT ELECTIVE	Upon successful completion of the course, students will be able to: outline the fundamentals of cyberspace and how it works; identify the cyber domain's five key gateways to its vulnerability to cyber threats; distinguish between DDoS attacks, trojans, and botnets and determine common defense mechanisms to these threats; categorize the different types of cybercrime and determine how law enforcement is fighting back; contrast the "good" and "bad" hacktivists and illustrate the three major types of hacktivists; compare and contrast the different views of whether government oversight of cybersecurity is necessary; analyze the barriers to effective international governance of the internet; determine how the us constitution limits but does not prohibit the government's monitoring of the internet; formulate how us privacy laws should evolve with new technologies; analyze encryption and wiretapping work in cyberspace; assess the "going dark" phenomenon; identify the dangers hidden in computer hardware; illustrate the ways to reduce your own risk of danger online in your professional and personal life; and analyze alternative approaches to cybersecurity.	In the lower division baccalaureate/associate degree category, 3 semester hours in Information Systems or Criminal Justice.
Economics- Introduction to Microeconomics (EC101)	ECO 102	Upon successful completion of the course, students will be able to: define the role of scarcity, specialization, opportunity cost and cost/benefit analysis in economic decision-making; distinguish the differences between the 4 types of market structures; describe features of each and the implications of each on economic outcomes; explain how cost, price, profit and efficiency interrelate to these market structures; explain supply and demand elasticity and the effect of elasticity on economic outcomes; describe the production function and the Law of Diminishing Marginal Productivity; interpret charts, graphs, and tables and use the information to make educated conclusions; calculate the price to maximize profit and quantity of resources in factor markets under perfect and imperfect competition by use of marginal analysis; distinguish between the various forms of market failure and explain what government options are available and how they may intervene; predict the impacts of said government intervention on the economy; and recognize, interpret and utilize supply and demand graph, the underlying determinates, and demonstrate the impact of shifts in both market supply and demand curves on equilibrium price and output.	In the lower division baccalaureate/associate degree category, 3 semester hours in Accounting, Business Administration, Principles of Economics, Introduction to Microeconomics, Finance and Mathematics
Education- Language and Literacy in Education (ED103)	Open Elective	Upon successful completion of the course, students will be able to: define and classify a vast variety of terms used in the fields of phonology, morphology, orthography, semantics, syntax and pragmatics; analyze different literacy approaches and models, and apply these structures when teaching language and literacy skills; identify the challenges associated with teaching in a culturally and linguistically diverse environment; compare and contrast phonological, grammatical and stylistic features of American dialects, including the African American vernacular English; explore language variation and identify differences in dialect based on socioeconomic class, ethnic identity, gender and age; examine and assess various stages of literacy in children and young adults; apply linguistic theory to practice and design appropriate classroom instruction to further develop language and literacy skills; recognize learning difficulties associated with language and literacy, and select an effective teaching approach to overcome these difficulties in a classroom setting; invent, plan and organize classroom activities to support the development of reading, writing, listening and speaking skills in a classroom setting; develop classroom instruction and integrate it with assessment; and elaborate research-based practices to positively impact the lives of learners at elementary and secondary school levels, and support the development of language and literacy skills (reading, writing, speaking and listening) within the classroom, as well as outside the classroom.	In the lower division baccalaureate/associate degree category, 3 semester hours in Introduction to Linguistics, Literacy and Language Education
Environmental Science- Climate Change and the Cryosphere (EV103)	SCI Elective	Upon successful completion of the course, students will be able to: define and classify a vast variety of terms used in the fields of Earth Sciences including cryosphere, glaciers, snow, ice sheets, and sea ice; analyze different methodological approaches to measuring snow melt in a variety of conditions all over the world; identify the challenges the Earth is facing in regards to an increase in temperature; investigate the cryosphere on Earth and what the predictions are for the next 100 years; examine and assess what we can expect our Earth to do with the damage caused; recognize the different elements of the cryosphere and how they interrelate; distinguish the different components of a glacier including the terminal moraine, accumulation zone, and ablation zone; evaluate the qualities of a glacier in terms of movement and mass balance, including basal melting and internal deformation; compare and contrast freshwater and salt water properties and how they both contribute to the Earth; and identify the characteristics of melting glaciers (glacial outburst floods) and the future of water supplies in regards to glacier streamflow.	In the lower division baccalaureate/associate degree category, 3 semester hours in Environmental Science, Climate Change, or as a General Science Elective
Healthcare- Introduction to Public Health (HC101)	HCA ELECTIVE	Upon successful completion of the course, students will be able to: differentiate and understand the major concepts within the field of public health; analyze a variety of public health issues including infectious disease, food safety, health care, emergency, environmental factors associated with life, and research; identify the challenges associated with the field of public health; examine and assess how policies are created on a local, state, and national level in an effort to ensure the health and safety of the public; explore the role public health has in terms of diet, safety of food and drugs, and disease; apply the knowledge learned from the course to have an impact in your local community; develop strategic public health solutions to combat the healthcare crisis in not only America, but also globally.	In the lower division baccalaureate/associate degree category, 3 semester hours in Public Health, Health Sciences, or Biology (218).
History- Turning Points in Modern History 15th Century to Present (HS103)	HIS ELECTIVE	Upon successful completion of the course, students will be able to: analyze complex historical themes, events, and trends with a focus on identifying their global context and connection to the modern world; explain and analyze significant political, socioeconomic, and cultural developments in modern world history, with emphasis on the changing nature of authority and its relationship to society; explain the contributions that different cultures have made to modern society; critically analyze the different approaches that different regions took when seizing and wielding power; and examine information from a variety of resources, including primary and secondary resources, be able to properly interpret and discuss political cartoons from different regions and eras.	In the lower division baccalaureate/associate degree category, 3 semester hours in History, Modern History, Social Studies, or Social Sciences
Nutrition and Health- Body Sculpting with Diet and Exercise (NU102)	SCI ELECTIVE	Upon successful completion of the course, students will be able to: differentiate between the three major classes of macronutrients; analyze a variety of nutritional topics including a low carb diet, Ketogenic diet, vegetarian diet, and vegan diet; identify challenges associated with the field of nutrition in terms of different nutritional beliefs; explore the role exercise plays in muscle mass and body composition; examine and assess the validity of dietary supplements and food labels; apply knowledge about set point theory to overcome nutritional challenges; and develop an individualized nutritional plan.	In the lower division baccalaureate/associate degree category, 3 semester hours in Concepts in Nutrition and Health, Exercise Science, or Health Services
Psychology- Introduction to Psychology (PS101)	PSY 101	Upon successful completion of the course, students will be able to: describe common memory distortions and explain what causes them; differentiate between the three types of memory (sensory, working, and long-term) and enumerate the characteristics of each type; explain how expertise can improve memory in particular situations; analyze the memory deficits of individuals to recognize retrograde and anterograde amnesia; describe individuals who have superior memory and explain some of the underlying behaviors that are associated with such memory; distinguish between classical conditioning and operant conditioning and describe some of the experimental methods used in each; explain how visual imagery is both similar to and different from sensory perception; examine the process of decision making and explain how heuristics and algorithms can influence human decision making; describe what is meant by problem solving and how humans solve problems; differentiate between the different building blocks of language (morphemes, phonemes, etc.); explain the importance of critical periods in the development of human language; compare and contrast human language and non-human communication to evaluate whether or not language exists outside of humans; critique Piaget's theories of cognitive development and describe how more-recent research has altered these classic theories; differentiate between the different types of attachment and explain what factors result in different attachment styles; and examine the three types of moral reasoning and critique the research in light of more-current studies of the differences between males and females and between different cultures.	In the lower division baccalaureate/associate degree category, 3 semester hours in Introduction to Psychology
Robotics- Introduction to Robotics (RB101)	ELECTIVE	Upon successful completion of the course, students will be able to: identify the electrical and physical components of an autonomous robot; analyze the challenges in the design of robots for different applications in land, air, and water; describe the various trade-offs inherent to the design and optimization of robotic systems; compare and contrast the two main types of robotic autonomous navigation control, behavior-based and model-based; recognize the different robotic bodies, sensors, actuators, power sources, and controllers used for such varied applications in industrial, home, hospital, flying, underwater, space, military, and social robots; explore ideas regarding the design of robots with life-like and human-like autonomy and the appropriate way to test it according to the scientific community; examine challenges ahead in the field of robotics, including legal aspects of autonomous systems; and elaborate plans for the design and development of robotic systems for a specific application, including the modification of the environment.	In the lower division baccalaureate/associate degree category, 3 semester hours in Mechanical Engineering, Engineering Technology, Manufacturing Engineering, or Engineering Technology