FAEIS Related Sciences CIPS with Definitions

Content Taken from the National Center for Education Statistics Classification of Instructional Programs – 2010

04.0301 City/Urban, Community and Regional Planning. (No substantive changes)
A program that prepares individuals to apply principles of planning, analysis, and architecture to the development and improvement of urban areas and surrounding regions, and to function as professional planners. Includes instruction in principles of architecture; master plan development; service, communications, and transportation systems design; community and commercial development; zoning; land use planning; applied economics; policy analysis; applicable laws and regulations; and professional responsibilities and managerial duties.
Examples:
- Urban Design
See also: 45.1201 - Urban Studies/Affairs.

04.0401 Environmental Design/Architecture. (No substantive changes)
A program that prepares individuals to design public and private spaces, indoor and outdoor, for leisure, recreational, commercial, and living purposes, and for professional practice as environmental designers and architects. Includes instruction in the design and planning of public and private open spaces and their relationship to buildings and other aspects of the built environment; facilities management; related aspects of interior design and architecture, landscape architecture, and urban planning; and professional responsibilities and standards.
See also: 19.0601 - Housing and Human Environments, General.

04.0501 Interior Architecture. (No substantive changes)
A program that prepares individuals to apply architectural principles in the design of structural interiors for living, recreational, and business purposes and to function as professional interior architects. Includes instruction in architecture, structural systems design, heating and cooling systems, occupational and safety standards, interior design, specific end-use applications, and professional responsibilities and standards.
See also: 50.0408 - Interior Design.

05.0202 American Indian/Native American Studies. (No substantive changes)
A program that focuses on the history, sociology, politics, culture, and economics of one or more of the American Indian, Aleut, Inuit, Hawaiian and other native peoples of the Americas from earliest times until the present, with particular emphasis on U.S. and Canadian populations and their problems but including reference to Caribbean and Latin American native peoples.

11.0401 Information Science/Studies. (No substantive changes)
A program that focuses on the theory, organization, and process of information collection, transmission,
and utilization in traditional and electronic forms. Includes instruction in information classification and organization; information storage and processing; transmission, transfer, and signaling; communications and networking; systems planning and design; human interfacing and use analysis; database development; information policy analysis; and related aspects of hardware, software, economics, social factors, and capacity.
See also: 25.0101 - Library and Information Science., 52.1201 - Management Information Systems, General.

11.0901 Computer Systems Networking and Telecommunications. (No substantive changes)
A program that focuses on the design, implementation, and management of linked systems of computers, peripherals, and associated software to maximize efficiency and productivity, and that prepares individuals to function as network specialists and managers at various levels. Includes instruction in operating systems and applications; systems design and analysis; networking theory and solutions; types of networks; network management and control; network and flow optimization; security; configuring; and troubleshooting.
Examples:
- Computer Systems Telecommunications
- Computer Systems Networking

13.0301 Curriculum and Instruction. (No substantive changes)
A program that focuses on the curriculum and related instructional processes and tools, and that may prepare individuals to serve as professional curriculum specialists. Includes instruction in curriculum theory, curriculum design and planning, instructional material design and evaluation, curriculum evaluation, and applications to specific subject matter, programs or educational levels.

13.0401 Educational Leadership and Administration, General. (No substantive changes)
A program that focuses on the general principles and techniques of administering a wide variety of schools and other educational organizations and facilities, supervising educational personnel at the school or staff level, and that may prepare individuals as general administrators and supervisors.
Examples:
- Educational Leadership and Policy
- Educational Administration and Policy
- K-12 Educational Leadership
- K-12 Educational Administration

13.0406 Higher Education/Higher Education Administration. (No substantive changes)
A program that focuses on the principles and practice of administration in four-year colleges, universities and higher education systems, the study of higher education as an object of applied research, and which may prepare individuals to function as administrators in such settings. Includes instruction in higher education economics and finance; policy and planning studies; curriculum; faculty and labor relations; higher education law; college student services; research on higher education; institutional research; marketing and promotion; and issues of evaluation, accountability and
philosophy.
Examples:
- Higher Education Policy
See also: 13.1102 - College Student Counseling and Personnel Services.

**13.0901 Social and Philosophical Foundations of Education.** (No substantive changes)
A program that focuses on the systematic study of education as a social and cultural institution, and the educational process as an object of humanistic inquiry. Includes instruction in such subjects as the philosophy of education, history of education, educational literature, educational anthropology, sociology of education, economics and politics of education, educational policy studies, and studies of education in relation to specific populations, issues, social phenomena, and types of work.

**13.1001 Special Education and Teaching, General.** (No substantive changes)
A general program that focuses on the design and provision of teaching and other educational services to children or adults with special learning needs or disabilities, and that may prepare individuals to function as special education teachers. Includes instruction in diagnosing learning disabilities, developing individual education plans, teaching and supervising special education students, special education counseling, and applicable laws and policies.

**13.1101 Counselor Education/School Counseling and Guidance Services.** (No substantive changes)
A program that prepares individuals to apply the theory and principles of guidance and counseling to the provision of support for the personal, social, educational, and vocational development of students, and the organizing of guidance services within elementary, middle and secondary educational institutions. Includes instruction in legal and professional requirements, therapeutic counselor intervention, vocational counseling, and related sociological and psychological foundations.
See also: 42.2805 - School Psychology.

**13.1202 Elementary Education and Teaching.** (No substantive changes)
A program that prepares individuals to teach students in the elementary grades, which may include kindergarten through grade eight, depending on the school system or state regulations. Includes preparation to teach all elementary education subject matter.

**13.1311 Mathematics Teacher Education.** (No substantive changes)
A program that prepares individuals to teach mathematics programs at various educational levels.
Examples:
- Elementary Mathematics Teacher Education
- Middle School Mathematics Teacher Education
- Secondary Mathematics Teacher Education

**13.1314 Physical Education Teaching and Coaching.** (No substantive changes)
A program that prepares individuals to teach physical education programs and/or to coach sports at various educational levels.
13.1315 Reading Teacher Education. (No substantive changes)  
A program that prepares individuals to diagnose reading difficulties and to teach reading programs at various educational levels.

13.1316 Science Teacher Education/General Science Teacher Education. (No substantive changes)  
A program that prepares individuals to teach general science programs, or a combination of the biological and physical science subject matter areas, at various educational levels.

13.9999 Education, Other. (No substantive changes)  
Any instructional program in education not listed above.

15.0612 Industrial Technology/Technician. (No substantive changes)  
A program that prepares individuals to apply basic engineering principles and technical skills in support of industrial engineers and managers. Includes instruction in optimization theory, human factors, organizational behavior, industrial processes, industrial planning procedures, computer applications, and report and presentation preparation.

15.0702 Quality Control Technology/Technician. (No substantive changes)  
A program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in maintaining consistent manufacturing and construction standards. Includes instruction in quality control systems management principles, technical standards applicable to specific engineering and manufacturing projects, testing procedures, inspection procedures, related instrumentation and equipment operation and maintenance, and report preparation.

22.0001 Pre-Law Studies. (No substantive changes)  
A program that prepares individuals for the professional study of law at the post-baccalaureate level.

24.0199 Liberal Arts and Sciences, General Studies and Humanities, Other. (No substantive changes)  
Any single instructional program in liberal arts and sciences, general studies and humanities not listed above.

26.0101 Biology/Biological Sciences, General. (No substantive changes)  
A general program of biology at the introductory, basic level or a program in biology or the biological sciences that is undifferentiated as to title or content. Includes instruction in general biology and programs covering a variety of biological specializations.

26.0102 Biomedical Sciences, General. (No substantive changes)  
A general, program that focuses on the integrative scientific study of biological issues related to health and medicine, or a program in one or more of the biomedical sciences that is undifferentiated as to title. Includes instruction in any of the basic medical sciences at the research level; biological science research in biomedical faculties; and general studies encompassing a variety of the biomedical disciplines.
26.0202 Biochemistry. (No substantive changes)
A program that focuses on the scientific study of the chemistry of living systems, their fundamental chemical substances and reactions, and their chemical pathways and information transfer systems, with particular reference to carbohydrates, proteins, lipids, and nucleic acids. Includes instruction in bio-organic chemistry, protein chemistry, bioanalytical chemistry, bioseparations, regulatory biochemistry, enzymology, hormonal chemistry, calorimetry, and research methods and equipment operation.

26.0203 Biophysics. (No substantive changes)
A program that focuses on the application of physics principles to the scientific study of the mechanisms of biological processes and assemblies at all levels of complexity. Includes instruction in research methods and equipment operation and applications to subjects such as bioenergetics, biophysical theory and modeling, electrophysics, membrane biology, channels, receptors and transporters, contractility and muscle function, protein shaping and folding, molecular and supramolecular structures and assemblies, and computational science.
See also: 51.2205 - Health/Medical Physics.

26.0204 Molecular Biology. (No substantive changes)
A program that focuses on the scientific study of the structure and function of biological macromolecules and the role of molecular constituents and mechanisms in supramolecular assemblies and cells. Includes instruction in such topics as molecular signaling and transduction, regulation of cell growth, enzyme substrates and mechanisms of enzyme action, DNA-protein interaction, and applications to fields such as biotechnology, genetics, cell biology, and physiology.

26.0205 Molecular Biochemistry. (No substantive changes)
A program that focuses on the scientific relationship of physiological function to the structure and actions of macromolecules and supramolecular assemblies such as multienzyme complexes, membranes, and viruses. Includes instruction in the chemical mechanisms of regulation and catalysis, protein synthesis and other syntheses, and biomolecular chemical reactions.

26.0206 Molecular Biophysics. (No substantive changes)
A scientific program that focuses on the dynamics and interactions of macromolecules and other three-dimensional ultrastructures, the architecture of supramolecular structures, and energy transfer in biomolecular systems. Includes instruction in energy transduction, structural dynamics, mechanisms of electron and proton transfer in biological systems, bioinformatics, automated analysis, and specialized research techniques.

26.0207 Structural Biology. (No substantive changes)
A program that focuses on the scientific study of submolecular and molecular components and assemblies of living systems and how they are organized into functional units such as cells and anatomic tissues. Includes instruction in glycoprotein, carbohydrate, protein, and nucleic acid structures and chemistry; cytoskeletal structure; nuclear and intracellular structures; molecular recognition; molecular
chaperones; transcription and folding; multicellular organization; microtubules and microfilaments; cell differentiation; immunophysics; and DNA sequencing.

26.0208 Photobiology. (No substantive changes)
A program that focuses on the scientific study of the effects of light energy on living organisms, the manufacture and processing of luminescence by organisms, and the uses of light in biological research. Includes instruction in bioluminescence, chronobiology, photomedicine, environmental photobiology, organic photochemistry, photomorphogenesis, photoreceptors and photosensitization, molecular mechanics of photosynthesis, phototechnology, vision, ultraviolet radiation, radiation physics, and spectral research methods.

26.0209 Radiation Biology/Radiobiology. (No substantive changes)
A program that focuses on the effects of radiation on organisms and biological systems. Includes instruction in particle physics, ionization, and biophysics of radiation perturbations, cellular and organismic repair systems, genetic and pathological effects of radiation, and the measurement of radiation dosages.

26.0210 Biochemistry and Molecular Biology. (No substantive changes) CIP Title or Definition Changed
A program of study that combines the biological sub-disciplines of biochemistry and molecular biology. Includes instruction in general biology, general and organic chemistry, physics, biochemistry, molecular biology, immunology, microbiology, genetics, and cellular biology.

26.0401 Cell/Cellular Biology and Histology. (No substantive changes)
A program that focuses on the scientific study of the structure, function, and regulation of cells as individual units and as components of larger systems. Includes instruction in cell chemistry, cellular dynamics, cellular replication and reproduction, cell anatomy, membrane function, organelles, cell adhesion and extracellular matrices, cell dynamics and motility, meiosis and mitosis, signal transduction, regulation, recognition and defense mechanisms, the cell cycle, cell metabolism and respiration, gene expression, and studies of cell types and characteristics.

26.0406 Cell/Cellular and Molecular Biology. (No substantive changes)
An integrated, combined program that focuses on the scientific study of cells, cellular systems, and the molecular basis of cell structure and function. Includes instruction in cell biology, cell chemistry, molecular biology, biophysics, and structural biology.

26.0802 Molecular Genetics. (No substantive changes) CIP Title or Definition Changed
A program that focuses on the scientific study of genetic structures and mechanisms of organisms, including bacteria, phages, and viruses. Includes instruction in the replication, expression, transfer, structure, maintenance, and stability of heritable information in DNA, RNA, and proteins; the regulation of these processes; and neurogenetics.
Examples:
- Neurogenetics
- Proteomics
- Protein Expression

26.0905 Reproductive Biology. (No substantive changes)
A program that focuses on the scientific study of reproductive processes and biogenesis in animals and human beings. Includes instruction in reproductive ecology and behavior, reproductive system physiology, endocrinology, developmental biology, neuroendocrinology, evolution and types of reproductive systems, reproductive genetics, physiopathology of reproductive processes, and applications of molecular biology and biophysics to the study of reproductive physiology.

26.1005 Molecular Toxicology. (No substantive changes)
A program that focuses on the scientific study of the genetic determinants of susceptibility to external pollutants and poisons; the interaction of toxic agents with biological systems at the molecular and cellular levels; and the development of countermeasures and treatments. Includes instruction in pharmacogenetics, biomolecular structure, gene expression and regulation, transgenic modeling, toxic events signaling, transcriptional activation, mutagenesis and carcinogenesis, pulmonary toxicology, xenobiotic metabolism, oxidative stress, risk assessment, molecular dosimetry, and studies of specific toxins and treatment therapies.

26.1006 Environmental Toxicology. (No substantive changes)
A program that focuses on the scientific study of the health effects associated with exposure to toxic chemicals and systems occurring in the natural, work, and living environments; the management of environmental toxins and toxicity; and the development of protections for humans, animals, and plants. Includes instruction in applied ecology; microbiology; toxin transport, fate, and degradation; dermal toxicology; reproductive and genetic toxicology; atmospheric and environmental chemistry; metals toxicology; environmental mutagens and biotransformation; nutrient interaction; chemical sensitivity, disorders, and disease; risk assessment; animal waste management; environmental health; and hazardous materials management.

26.1101 Biometry/Biometrics. (No substantive changes)
A program that focuses on the application of statistics and other computational methods to the study of problems in the biological sciences and related fields in agriculture and natural resources. Includes instruction in computational biology, mathematical statistics, matrix algebra, applied calculus, experimental design, linear modeling, sampling theory, stochastic processes, spatial and temporal analysis, longitudinal analysis, sparse/unbalanced data and complex error, and applications to such topics as population genetics, animal breeding, forest genetics, population dynamics, wildlife biometry, ecology, and agricultural and natural resource management.
See also: 27.0306 - Mathematical Biology.

26.1102 Biostatistics. (No substantive changes)
A program that focuses on the application of descriptive and inferential statistics to biomedical research
and clinical, public health, and industrial issues related to human populations. Includes instruction in mathematical statistics, modeling, clinical trials methodology, disease and survival analysis, longitudinal analysis, missing data analysis, spatial analysis, computer tomography, biostatistics consulting, and applications to such topics as genetics, oncology, pharmacokinetics, physiology, neurobiology, and biophysics.

See also: 27.0501 - Statistics, General.

26.1103 Bioinformatics. (No substantive changes)
A program that focuses on the application of computer-based technologies and services to biological, biomedical, and biotechnology research. Includes instruction in algorithms, network architecture, principles of software design, human interface design, usability studies, search strategies, database management and data mining, digital image processing, computer graphics and animation, CAD, computer programming, and applications to experimental design and analysis and to specific quantitative, modeling, and analytical studies in the various biological specializations.

See also: 51.2706 - Medical Informatics., 11.0104 - Informatics.

26.1199 Biomathematics, Bioinformatics, and Computational Biology, Other. (No substantive changes)
*CIP Title or Definition Changed*
Any instructional program in biomathematics, bioinformatics, and computational biology not listed above.

Examples:
- Biomathematics

26.1201 Biotechnology. (No substantive changes)
A program that focuses on the application of the biological sciences, biochemistry, and genetics to the preparation of new and enhanced agricultural, environmental, clinical, and industrial products, including the commercial exploitation of microbes, plants, and animals. Includes instruction in bioinformatics, gene identification, phylogenetics and comparative genomics, bioinorganic chemistry, immunoassaying, DNA sequencing, xenotransplantation, genetic engineering, industrial microbiology, drug and biologic development, enzyme-based production processes, patent law, biotechnology management and marketing, applicable regulations, and biotechnology ethics.

26.1301 Ecology. (No substantive changes)
A program that focuses on the scientific study of the relationships and interactions of small-scale biological systems, such as organisms, to each other, to complex and whole systems, and to the physical and other non-biological aspects of their environments. Includes instruction in biogeochemistry; landscape and/or marine/aquatic dynamics; decomposition; global and regional elemental budgets; biotic and abiotic regulation of nutrient cycles; ecophysiology; ecosystem resilience, disturbance, and succession; community and habitat dynamics; organismoal interactions (co-evolution, competition, predation); paleoecology; and evolutionary ecology.
Examples:
- Ecosystem Science

26.1399 Ecology, Evolution, Systematics and Population Biology, Other. (No substantive changes)
Any instructional program in ecology, evolution, and systematics not listed above.

26.9999 Biological and Biomedical Sciences, Other. (No substantive changes)
Any instructional program in the biological and biomedical sciences not listed above.

30.9999 Multi-/Interdisciplinary Studies, Other. (No substantive changes)
Any instructional program in multi/interdisciplinary studies not listed above.

31.0504 Sport and Fitness Administration/Management. (No substantive changes)
A program that prepares individuals to apply business, coaching and physical education principles to the organization, administration and management of athletic programs and teams, fitness/rehabilitation facilities and health clubs, sport recreation services, and related services. Includes instruction in program planning and development; business and financial management principles; sales, marketing and recruitment; event promotion, scheduling and management; facilities management; public relations; legal aspects of sports; and applicable health and safety standards.
See also: 09.0906 - Sports Communication., 31.0508 - Sports Studies.

31.0505 Kinesiology and Exercise Science. (No substantive changes)
A scientific program that focuses on the anatomy, physiology, biochemistry, and biophysics of human movement, and applications to exercise and therapeutic rehabilitation. Includes instruction in biomechanics, motor behavior, motor development and coordination, motor neurophysiology, performance research, rehabilitative therapies, the development of diagnostic and rehabilitative methods and equipment, and related analytical methods and procedures in applied exercise and therapeutic rehabilitation.
See also: 26.0908 - Exercise Physiology., 51.0913 - Athletic Training/Trainer., 51.2311 - Kinesiotherapy/Kinesiotherapist.

40.0401 Atmospheric Sciences and Meteorology, General. (No substantive changes)
A general program that focuses on the scientific study of the composition and behavior of the atmospheric envelopes surrounding the earth, the effect of earth's atmosphere on terrestrial weather, and related problems of environment and climate. Includes instruction in atmospheric chemistry and physics, atmospheric dynamics, climatology and climate change, weather simulation, weather forecasting, climate modeling and mathematical theory; and studies of specific phenomena such as clouds, weather systems, storms, and precipitation patterns.

40.0499 Atmospheric Sciences and Meteorology, Other. (No substantive changes)
Any instructional program in atmospheric sciences and meteorology not listed above.
40.0504 Organic Chemistry. (No substantive changes) *CIP Title or Definition Changed*
A program that focuses on the scientific study of the properties and behavior of hydrocarbon compounds and their derivatives. Includes instruction in molecular conversion and synthesis, molecular synthesis and design, the molecular structure of living cells and systems, the mutual reactivity of organic and inorganic compounds in combination, the spectroscopic analysis of hydrocarbon compounds, and applications to specific problems in research, industry, and health.

40.0599 Chemistry, Other. (No substantive changes)
Any instructional program in chemistry not listed above.

40.0601 Geology/Earth Science, General. (No substantive changes)
A program that focuses on the scientific study of the earth; the forces acting upon it; and the behavior of the solids, liquids and gases comprising it. Includes instruction in historical geology, geomorphology, and sedimentology, the chemistry of rocks and soils, stratigraphy, mineralogy, petrology, geostatistics, volcanology, glaciology, geophysical principles, and applications to research and industrial problems. See also: 14.3901 - Geological/Geophysical Engineering.

40.0699 Geological and Earth Sciences/Geosciences, Other. (No substantive changes)
Any instructional program in geological and related sciences not listed above.
Examples:
- Geodetics
- Geodesy

44.0701 Social Work. (No substantive changes)
A program that prepares individuals for the professional practice of social welfare administration and counseling, and that focus on the study of organized means of providing basic support services for vulnerable individuals and groups. Includes instruction in social welfare policy; case work planning; social counseling and intervention strategies; administrative procedures and regulations; and specific applications in areas such as child welfare and family services, probation, employment services, and disability counseling. See also: 51.1503 - Clinical/Medical Social Work.

45.0602 Applied Economics. (No substantive changes)
A program that focuses on the application of economic principles and analytical techniques to the study of particular industries, activities, or the exploitation of particular resources. Includes instruction in economic theory; microeconomic analysis and modeling of specific industries, commodities; the economic consequences of resource allocation decisions; regulatory and consumer factors; and the technical aspects of specific subjects as they relate to economic analysis.
Examples:
- Behavioral and Experimental Economics
See also: 01.0103 - Agricultural Economics., 03.0204 - Natural Resource Economics., 19.0402 - Consumer Economics., 52.0601 - Business/Managerial Economics.

45.0701 Geography. (No substantive changes)
A program that focuses on the systematic study of the spatial distribution and interrelationships of people, natural resources, plant and animal life. Includes instruction in historical and political geography, cultural geography, economic and physical geography, regional science, cartographic methods, remote sensing, spatial analysis, and applications to areas such as land-use planning, development studies, and analyses of specific countries, regions, and resources.
Examples:
- Environmental Geography
- Physical Geography
- Social Geography

45.1201 Urban Studies/Affairs. (No substantive changes)
A program that focuses on the application of social science principles to the study of urban institutions and the forces influencing urban social and political life. Includes instruction in urban theory, the development and evolution of urban areas, urban sociology, principles of urban and social planning, and the politics and economics of urban government and services.
See also: 04.0301 - City/Urban, Community and Regional Planning.

46.0302 Electrician. (No substantive changes)
A program that prepares individuals to apply technical knowledge and skills to install, operate, maintain, and repair electric apparatus and systems such as residential, commercial, and industrial electric-power wiring; and DC and AC motors, controls, and electrical distribution panels. Includes instruction in the principles of electronics and electrical systems, wiring, power transmission, safety, industrial and household appliances, job estimation, electrical testing and inspection, and applicable codes and standards.
Examples:
- Construction Electrician
- Industrial Electrician
See also: 15.0303 - Electrical, Electronic and Communications Engineering Technology/Technician.

51.0201 Communication Sciences and Disorders, General. (No substantive changes) CIP Title or Definition Changed
A program that focuses on the application of biomedical, psychological, and physical principles to the study of the scientific bases, development, and treatment of speech, language, hearing, and cognitive communication problems caused by disease, injury, or disability. Includes instruction in language science, hearing science, speech and voice science, biology of communication, behavioral linguistics, psychology, and applications to the development of diagnostic and rehabilitative strategies and technologies.
Examples:
51.0899 Allied Health and Medical Assisting Services, Other. (No substantive changes)
Any instructional program in allied health and medical assisting services not listed above.

51.0913 Athletic Training/Trainer. (No substantive changes)
A program that prepares individuals to work in consultation with, and under the supervision of physicians to prevent and treat sports injuries and associated conditions. Includes instruction in the identification, evaluation, and treatment of athletic injuries and illnesses; first aid and emergency care; therapeutic exercise; anatomy and physiology; exercise physiology; kinesiology and biomechanics; nutrition; sports psychology; personal and community health; knowledge of various sports and their biomechanical and physiological demands; and applicable professional standards and regulations.

51.0914 Gene/Genetic Therapy. (No substantive changes)
A program that focuses on the application of genetics to the therapeutic treatment of diseases and inherited abnormalities through the targeted modification of gene expression, and prepares individuals to administer genetic therapies. Includes instruction in medical genetics, genome analysis, pharmacology of gene transfer, viral vectors, nonviral therapeutic techniques, genetic screening, targeted gene delivery, vector production, safety and quality assurance, clinical trials management, and bioethics.
See also: 26.0806 - Human/Medical Genetics., 51.1509 - Genetic Counseling/Counselor.

51.0999 Allied Health Diagnostic, Intervention, and Treatment Professions, Other. (No substantive changes)
Any instructional program in allied health diagnostic, intervention, and treatment professions not listed above.

51.1002 Cytotechnology/Cytotechnologist. (No substantive changes)
A program that prepares individuals to work with pathologists to detect changes in body cells that may indicate, and permit diagnosis of, the early development of cancers and other diseases. Includes instruction in biochemistry, microbiology, applied mathematics, microscopy, slide preparation, identification of cellular structures and abnormalities, and laboratory procedures and safety.

51.1005 Clinical Laboratory Science/Medical Technology/Technologist. (No substantive changes)CIP Title or Definition Changed
A program that prepares individuals to conduct and supervise complex medical tests, clinical trials, and
research experiments; manage clinical laboratories; and consult with physicians and clinical researchers on diagnoses, disease causation and spread, and research outcomes. Includes instruction in the theory and practice of hematology, clinical chemistry, microbiology, immunology, immunohematology, physiological relationships to test results, laboratory procedures and quality assurance controls, test and research design and implementation, analytic techniques, laboratory management, data development and reporting, medical informatics, and professional standards and regulations. See also: 51.0719 - Clinical Research Coordinator.

51.2201 Public Health, General. (No substantive changes) CIP Title or Definition Changed
A program that generally prepares individuals to plan, manage, and evaluate public health care services; to function as public health professionals in public agencies, the private sector, and other settings; and to provide leadership in the field of public health. Includes instruction in epidemiology, biostatistics, public health principles, preventive medicine, health policy and regulations, health care services and related administrative functions, public health law enforcement, health economics and budgeting, public communications, and professional standards and ethics.
Examples:
- Public Health, General (MPH)
- Public Health, General (DPH)
See also: 26.1309 - Epidemiology., 44.0503 - Health Policy Analysis.

52.0209 Transportation/Mobility Management. (No substantive changes) CIP Title or Definition Changed
A program that prepares individuals to plan, administer, and coordinate physical transportation operations, networks, and systems. Includes instruction in transportation systems and technologies; traffic logistics and engineering; multi- and intermodal transportation systems; regional integration; facilities design and construction; transportation planning and finance; demand analysis and forecasting; carrier management; behavioral issues; transportation policy and law; intelligent systems; and applications to aviation, maritime, rail, and highway facilities and systems.
Examples:
- Mobility Management
- Air Mobility
- Sea Mobility
- Freight Forwarding
- Customs Broker

52.2001 Construction Management. (No substantive changes)
A program that prepares individuals to manage, coordinate, and supervise the construction process from concept development through project completion on timely and economic bases. Includes instruction in commercial, residential, mechanical, highway/heavy civil, electrical, environmental, industrial, and specialty construction; facilities management; project planning; budgeting and cost control; logistics and materials management; personnel management and labor relations; site safety; construction contracting; construction processes and techniques; organization and scheduling; and
applicable codes and regulations.  
See also: 46.0412 - Building/Construction Site Management/Manager.  

99.9999 Non-Major/Minor Programs Administered by Colleges of AG/NR/HS/VM