

projection, public speaking and interpersonal communications, sales organization and operations, customer relations, professional standards and ethics, and applicable technical skills.

52.1899 General Merchandising, Sales, and Related Marketing Operations, Other. (No substantive changes)

Any instructional program in merchandising, sales, and related marketing operations not listed above.

52.19 Specialized Sales, Merchandising and Marketing Operations. (No substantive changes)

Instructional content for this group of programs is defined in codes 52.1901 - 52.1999.

52.1901 Auctioneering. (No substantive changes)

A program that prepares individuals for professional careers as auctioneers and auction managers, and for meeting applicable state licensing requirements. Includes instruction in bid calling, public speaking, ringworking, auction techniques, salesmanship skills, auction clerking and cashiering, auction advertising, working independently or with auction houses, contracts and agency, applicable sales law, and managing both general auctions and auctions specializing in commodities such as antiques, consignments, farm equipment, industrial equipment, real estate, livestock, and automobiles.

52.1902 Fashion Merchandising. (No substantive changes)

A program that prepares individuals to promote product lines/brands, and organize promotional campaigns, at the wholesale level to attract retailer interest, wholesale purchasing, and supply contracts. Includes instruction in wholesaling, wholesale advertising, selling, and customer relations.

See also: 19.0905 - Apparel and Textile Marketing Management.

52.1903 Fashion Modeling. (No substantive changes)

A program that prepares individuals to present and display fashion, apparel, and accessories products in wholesale and retail settings, either on the person or via props and natural or artificial settings. Includes instruction in modeling skills, health and cosmetic principles, fashion show management, display design and production, and applicable aspects of advertising and fashion photography.

52.1904 Apparel and Accessories Marketing Operations. (No substantive changes)

A program that prepares individuals to perform operations connected with the distribution and sale of apparel and accessories. Includes instruction in wholesaling and retailing, apparel technologies, distribution, customer sales and service skills, and principles of consumer research and sales forecasting.

52.1905 Tourism and Travel Services Marketing Operations. (No substantive changes)

A program that prepares individuals to provide direct retail services to hotel and motel clients and customers in a variety of settings. Includes instruction in the principles of hotel/motel operations, customer sales and assistance operations and techniques, telephone operations, and basic office management.

52.1906 Tourism Promotion Operations. (No substantive changes)

A program that prepares individuals to perform marketing and sales operations connected with the promotion of tourism in public and private sector settings. Includes instruction in principles of marketing research and advertising, promotional campaign organization, media relations, and applicable technical and administrative skills.

52.1907 Vehicle and Vehicle Parts and Accessories Marketing Operations. (No substantive changes)

A program that prepares individuals to perform operations connected with the distribution and sale of replacement parts and other end-use supplies in the automotive, marine, and aviation industries. Includes instruction in wholesaling and retailing, principles of vehicular technologies, storage and distribution, customer sales and service skills, and principles of consumer research and sales forecasting.

52.1908 Business and Personal/Financial Services Marketing Operations. (No substantive changes)

A program that prepares individuals to perform marketing and operational tasks associated with the provision of personal and financial services. Includes instruction in banking, marketing research, advertising, promotional campaign organization, insurance, media relations, and applicable technical and administrative skills.

52.1909 Special Products Marketing Operations. (No substantive changes)

A program that prepares individuals to perform marketing and sales operations connected with the promotion of special products, including floristry, food, and home and office products. Includes instruction in principles of marketing research and advertising, promotional campaign organization, media relations, and applicable technical and administrative skills.

52.1910 Hospitality and Recreation Marketing Operations. (No substantive changes)

A program that prepares individuals to provide marketing services in the hospitality and leisure fields. Includes instruction in hospitality operations, customer sales and assistance operations and techniques, telephone operations, basic office management, retail sports, recreation equipment, food and beverage.

52.1999 Specialized Merchandising, Sales, and Marketing Operations, Other. (No substantive changes)

Any instructional program in sales, marketing, and distribution operations not listed above.

Examples:

- Industrial Marketing
- Scientific and Medical Marketing

52.20 Construction Management. (No substantive changes)

Instructional content is defined in code 52.2001.

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.

52.21 Telecommunications Management. (New)

Instructional content is defined in code 52.2101.

52.2101 Telecommunications Management. (New)

A program that prepares individuals to apply business skills to design, implement, and manage the voice, video, and data networking systems of organizations. Includes instruction in telecommunications concepts and technologies, network operations and management, wireless communications and mobile computing, cybersecurity, regulation and public policy, business practices and management, and written and oral communications.

52.99 Business, Management, Marketing, and Related Support Services, Other. (No substantive changes)

Instructional content is defined in code 52.9999.

52.9999 Business, Management, Marketing, and Related Support Services, Other. (No substantive changes)

Any instructional program in business, management, marketing and related support services not listed above.

53 HIGH SCHOOL/SECONDARY DIPLOMAS AND CERTIFICATES. (No substantive changes)

Instructional programs that define the prescribed requirements for high school/secondary school graduation.

53.01 High School/Secondary Diploma Programs. (No substantive changes)

Instructional content for this group of programs is defined in codes 53.0101 - 53.0199.

53.0101 Regular/General High School/Secondary Diploma Program. (No substantive changes)

An instructional program that defines the prescribed minimum requirements specified by a state, province, or other jurisdiction for completion of, and graduation from an undifferentiated regular secondary school program representing 12 academic years of schooling intended for school-age students.

53.0102 College/University Preparatory and Advanced High School/Secondary Diploma Program. (No substantive changes)

An instructional program that defines the prescribed requirements, specified by a state, province, or other jurisdiction, for completion of, and graduation from, a secondary school program of academic subject matter designed to meet typical college and university entrance requirements.

53.0103 Vocational High School and Secondary Business/Vocational-Industrial/Occupational Diploma Program. (No substantive changes)

An instructional program that defines the prescribed requirements, specified by a state, province, or other jurisdiction, for high school/secondary school graduation in a vocational program -- together with other required subject matter, and that may prepare individuals for specific occupations or direct labor market entry.

53.0104 Honors/Regents High School/Secondary Diploma Program. (No substantive changes)

An instructional program that defines the prescribed requirements, specified by a state, province, or other jurisdiction for high school/secondary school graduation in an academic or vocational program at a prescribed level of outstanding scholastic performance, or via meeting special requirements beyond the minimum.

53.0105 Adult High School/Secondary Diploma Program. (No substantive changes)

An instructional program that defines the prescribed requirements, specified by a state, province, or other jurisdiction for the completion of, and graduation from a secondary school program of academic subject matter offered for adult learners outside of the regular secondary school program. This does not include adult compensatory education programs resulting in completion of a high school equivalency certificate or diploma.

53.0199 High School/Secondary Diploma Programs, Other. (No substantive changes)

Any high school/secondary diploma program not listed above, such as diplomas awarded to special education students for completion of an individualized education plan (IEP).

53.02 High School/Secondary Certificate Programs. (No substantive changes)

Instructional content for this group of programs is defined in codes 53.0201 - 53.0299.

53.0201 High School Equivalence Certificate Program. (No substantive changes)

An instructional program that defines the requirements for meeting the minimum high school/secondary completion requirements specified by a U.S. state or other jurisdiction, for adult learners who did not complete secondary school. Includes undertaking a

specified program of studies and obtaining a prescribed passing score on the General Educational Development Test (GED) or provincial examinations. These awards represent the legally recognized equivalent of secondary school graduation.

53.0202 High School Certificate of Competence Program. (No substantive changes)

An instructional program that defines the content requirements for meeting specified performance standards in various secondary school studies that does not represent completion of and graduation from secondary school, as prescribed by a U.S. state or other jurisdiction. Includes such requirements as passing a state- or province-mandated academic achievement test and completing other specified requirements for subject-matter competence. These awards may be given for partial completion of secondary school or for achieving a specified high level of concentration and/or performance in certain subjects, and may be awarded independently or in conjunction with a high school/secondary diploma.

53.0203 Certificate of IEP Completion Program. (No substantive changes)

An instructional program that defines the requirements for meeting specified goals pertaining to an Individual Educational Program established by a local school system under the authority of a state or other jurisdiction. Specific content varies by student and may or may not equal a regular high school/secondary school program.

53.0299 High School/Secondary Certificates, Other. (No substantive changes)

Any certificate program at the high school/secondary instructional level not listed above.

54 HISTORY. (No substantive changes)

Instructional programs that focus on the study and interpretation of past events, institutions, issues, and cultures.

54.01 History. (No substantive changes)

Instructional content for this group of programs is defined in codes 54.0101 - 54.0199.

54.0101 History, General. (No substantive changes)

A program that focuses on the general study and interpretation of the past, including the gathering, recording, synthesizing and criticizing of evidence and theories about past events. Includes instruction in historiography; historical research methods; studies of specific periods, issues and cultures; and applications to areas such as historic preservation, public policy, and records administration.

54.0102 American History (United States). (No substantive changes)

A program that focuses on the development of American society, culture, and institutions from the Pre-Columbian period to the present. Includes instruction in American historiography, American history sources and materials, historical research methods, and applications to the study of specific themes, issues, periods, and institutions.

54.0103 European History. (No substantive changes)

A program that focuses on the development of European society, culture, and institutions from the origins to the present. Includes instruction in European historiography, European history sources and materials, historical research methods, and applications to the study of specific themes, issues, periods, and institutions.

See also: 30.1301 - Medieval and Renaissance Studies.

54.0104 History and Philosophy of Science and Technology. (No substantive changes) *CIP Title or Definition Changed*

A program that focuses on the historical evolution of scientific theories, science applications and technologies, and the scientific, medical, and technological disciplines, as well as the philosophy of science and its historical socio-economic context. Includes instruction in the concepts and methods of philosophical inquiry; historiography of science; history of science, medicine, and technology; and research methods in the history of the scientific and engineering disciplines, including mathematics.

Examples:

- History of Medicine

See also: 30.1501 - Science, Technology and Society.

54.0105 Public/Applied History. (No substantive changes) *CIP Title or Definition Changed*

A program that focuses on the application of history and administrative skills to the recording of public events and the management of related historical resources. Includes instruction in historical research methods, the planning and administration of public history projects, and applications to specific problems in public organizations, government agencies, foundations, and other facilities.

See also: 25.0103 - Archives/Archival Administration., 30.1202 - Cultural Resource Management and Policy Analysis.

54.0106 Asian History. (No substantive changes)

A program that focuses on the development of the societies, cultures, and institutions of the Asian Continent from their origins to the present. Includes instruction in the historiography of specific cultures and periods; sources and materials; historical research methods; and applications to the study of specific themes, issues, periods, and institutions.

54.0107 Canadian History. (No substantive changes)

A program that focuses on the study of the society, culture, and institutions of Canada from its origins to the present. Includes instruction in Canadian historiography, sources and materials, historical research methods, and applications to the study of specific themes, issues, periods, and institutions.

54.0108 Military History. (New)

A program that focuses on the study of the history of warfare and military institutions in their operational, politico-economic and socio-cultural contexts; including airpower history, naval history, and military history. Includes instruction in military organization,

military operations, the history of technology, leadership and biography, military psychology and behavior, international relations and politics, economics, aspects of general and regional history, cultural history and anthropology, historiography, and applicable quantitative methods.

Examples:

- Air Force History
- Naval History
- Military History (Armies)

54.0199 History, Other. (No substantive changes)

Any instructional program in history not listed above.

60 RESIDENCY PROGRAMS. (No substantive changes) *CIP Title or Definition Changed*

Programs that prepare medical doctors (MD), osteopaths (DO), dentists (DDS, DMD), veterinarians (DVM), and podiatrists (DPM) for certification as practitioners of recognized specialties in their respective professions. These programs are approved and accredited by designated professional associations and require from one to five years to complete, depending on the program.

Residency programs that also result in an academic degree completion, such as an MS or PhD, should be reported under one of the clinical sciences codes located in Series 26, 51.05, or 51.25, rather than in a residency code located in Series 60.

60.01 Dental Residency Programs. (No substantive changes)

Instructional content for this group of programs is defined in codes 60.0101 - 60.0199.

60.0101 Oral and Maxillofacial Surgery Residency Program. (No substantive changes) *CIP Title or Definition Changed*

A residency training program that prepares dentists in the diagnosis, and surgical and related treatment, of diseases, injuries, and defects involving both the functional and esthetic aspects of the hard and soft tissues of the head, mouth, teeth, gums, jaws, and neck. Includes treatment of problem wisdom teeth, facial pain, misaligned jaws, and reconstructive and dental implant surgery.

Examples:

- Dental/Oral Surgery Residency Program

60.0102 Dental Public Health Residency Program. (No substantive changes)

A residency-training program that prepares dentists in the formulation and delivery of public preventive and curative dental health services.

60.0103 Endodontics Residency Program. (No substantive changes)

A residency training program that prepares dentists in the etiology, diagnosis, prevention, and treatment of conditions that affect the dental and other periodontal tissues, including pulp canal therapy and root canal therapy.

60.0104 Oral and Maxillofacial Pathology Residency Program. (No substantive changes) *CIP Title or Definition Changed*

A residency training program that prepares dentists in the diagnosis and management of diseases affecting the oral and maxillofacial regions, using clinical, radiographic, microscopic, biochemical, or other examinations.

Examples:

- Oral Pathology Residency Program

60.0105 Orthodontics Residency Program. (No substantive changes)

A residency training program that prepares dentists in the principles and techniques involved in the prevention and correction of dental malocclusions and oral cavity anomalies.

60.0106 Pediatric Dentistry Residency Program. (No substantive changes) *CIP Title or Definition Changed*

A residency training program that prepares dentists to provide primary oral health care to infants, children, and adolescents, including patients with medical, physical or mental disabilities, and to treat a wide variety of dental problems for these patients.

Examples:

- Pedodontics Residency Program

60.0107 Periodontology Residency Program. (No substantive changes) *CIP Title or Definition Changed*

A residency training program that prepares dentists in the prevention, diagnosis, and treatment of diseases affecting the gums and supporting structures of the teeth, and in the placement and maintenance of dental implants.

Examples:

- Periodontics Residency Program

60.0108 Prosthodontics Residency Program. (No substantive changes)

A residency training program that prepares dentists in the principles and techniques of constructing oral prostheses, and the restoration and maintenance of oral function by the replacement of missing teeth and other oral structures with such artificial devices.

60.0109 Oral and Maxillofacial Radiology Residency Program. (New)

A residency training program that prepares dentists to produce and interpret images of the jaws, teeth, bone, and other structures of the head and neck region; and to diagnose and manage diseases, disorders, and conditions that affect this area of the body.

60.0199 Dental Residency Program, Other. (No substantive changes)

Any dental residency specialty program not listed above.

60.02 Medical Residency Programs. (Deleted)
Deleted, Report under 60.04, 60.05

60.0201 Aerospace Medicine. (Moved from)
Moved from 60.0201 to 60.0401

60.0202 Allergies and Immunology. (Moved from)
Moved from 60.0202 to 60.0402

60.0203 Anesthesiology. (Moved from)
Moved from 60.0203 to 60.0403

60.0204 Blood Banking. (Moved from)
Moved from 60.0204 to 60.0503

60.0205 Cardiology. (Moved from)
Moved from 60.0205 to 60.0504

60.0206 Chemical Pathology. (Moved from)
Moved from 60.0206 to 60.0505

60.0207 Child/Pediatric Neurology. (Deleted)
Deleted, Report under 60.0404

60.0208 Child Psychiatry. (Moved from)
Moved from 60.0208 to 60.0507

60.0209 Colon and Rectal Surgery. (Moved from)
Moved from 60.0209 to 60.0409

60.0210 Critical Care Anesthesiology. (Deleted)
Deleted, Report under 60.0511

60.0211 Critical Care Medicine. (Moved from)
Moved from 60.0211 to 60.0511

60.0212 Critical Care Surgery. (Moved from)
Moved from 60.0212 to 60.0579

60.0213 Dermatology. (Moved from)
Moved from 60.0213 to 60.0410

60.0214 Dermatopathology. (Moved from)
Moved from 60.0214 to 60.0513

60.0215 Diagnostic Radiology. (Moved from)
Moved from 60.0215 to 60.0411

60.0216 Emergency Medicine. (Moved from)
Moved from 60.0216 to 60.0412

60.0217 Endocrinology and Metabolism. (Moved from)
Moved from 60.0217 to 60.0516

60.0218 Family Medicine. (Moved from)
Moved from 60.0218 to 60.0413

60.0219 Forensic Pathology. (Moved from)
Moved from 60.0219 to 60.0517

60.0220 Gastroenterology. (Moved from)
Moved from 60.0220 to 60.0519

60.0221 General Surgery. (Moved from)
Moved from 60.0221 to 60.0414

60.0222 Geriatric Medicine. (Moved from)
Moved from 60.0222 to 60.0520

60.0223 Hand Surgery. (Moved from)

Moved from 60.0223 to 60.0578

60.0224 Hematology. (Moved from)
Moved from 60.0224 to 60.0524

60.0225 Hematological Pathology. (Moved from)
Moved from 60.0225 to 60.0523

60.0226 Immunopathology. (Moved from)
Moved from 60.0226 to 60.0526

60.0227 Infectious Disease. (Moved from)
Moved from 60.0227 to 60.0527

60.0228 Internal Medicine. (Moved from)
Moved from 60.0228 to 60.0415

60.0229 Laboratory Medicine. (Moved from)
Moved from 60.0229 to 60.0529

60.0230 Musculoskeletal Oncology. (Moved from)
Moved from 60.0230 to 60.0537

60.0231 Neonatal-Perinatal Medicine. (Moved from)
Moved from 60.0231 to 60.0538

60.0232 Nephrology. (Moved from)
Moved from 60.0232 to 60.0539

60.0233 Neurological Surgery/Neurosurgery. (Moved from)
Moved from 60.0233 to 60.0416

60.0234 Neurology. (Moved from)
Moved from 60.0234 to 60.0417

60.0235 Neuropathology. (Moved from)
Moved from 60.0235 to 60.0542

60.0236 Nuclear Medicine. (Moved from)
Moved from 60.0236 to 60.0418

60.0237 Nuclear Radiology. (Moved from)
Moved from 60.0237 to 60.0545

60.0238 Obstetrics and Gynecology. (Moved from)
Moved from 60.0238 to 60.0419

60.0239 Occupational Medicine. (Moved from)
Moved from 60.0239 to 60.0420

60.0240 Oncology. (Moved from)
Moved from 60.0240 to 60.0534

60.0241 Ophthalmology. (Moved from)
Moved from 60.0241 to 60.0421

60.0242 Orthopedics/Orthopedic Surgery. (Moved from)
Moved from 60.0242 to 60.0422

60.0243 Otolaryngology. (Moved from)
Moved from 60.0243 to 60.0423

60.0244 Pathology. (Moved from)
Moved from 60.0244 to 60.0424

60.0245 Pediatric Cardiology. (Moved from)
Moved from 60.0245 to 60.0549

60.0246 Pediatric Endocrinology. (Moved from)
Moved from 60.0246 to 60.0553

60.0247 Pediatric Hemato-Oncology. (Moved from)
Moved from 60.0247 to 60.0555

60.0248 Pediatric Nephrology. (Moved from)
Moved from 60.0248 to 60.0557

60.0249 Pediatric Orthopedics. (Moved from)
Moved from 60.0249 to 60.0558

60.0250 Pediatric Surgery. (Moved from)
Moved from 60.0250 to 60.0565

60.0251 Pediatrics. (Moved from)
Moved from 60.0251 to 60.0425

60.0252 Physical and Rehabilitation Medicine. (Moved from)
Moved from 60.0252 to 60.0426

60.0253 Plastic Surgery. (Moved from)
Moved from 60.0253 to 60.0427

60.0254 Preventive Medicine. (Deleted)
Deleted, Report under 60.0429

60.0255 Psychiatry. (Moved from)
Moved from 60.0255 to 60.0428

60.0256 Public Health Medicine. (Deleted)
Deleted, Report under 60.0429

60.0257 Pulmonary Disease. (Moved from)
Moved from 60.0257 to 60.0571

60.0258 Radiation Oncology. (Moved from)
Moved from 60.0258 to 60.0430

60.0259 Radioisotopic Pathology. (Moved from)
Moved from 60.0259 to 60.0572

60.0260 Rheumatology. (Moved from)
Moved from 60.0260 to 60.0574

60.0261 Sports Medicine. (Moved from)
Moved from 60.0261 to 60.0577

60.0262 Thoracic Surgery. (Moved from)
Moved from 60.0262 to 60.0432

60.0263 Urology. (Moved from)
Moved from 60.0263 to 60.0433

60.0264 Vascular Surgery. (Moved from)
Moved from 60.0264 to 60.0434

60.0265 Adult Reconstructive Orthopedics (Orthopedic Surgery). (Deleted)
Deleted, Report under 60.0422

60.0266 Child Neurology. (Moved from)
Moved from 60.0266 to 60.0404

60.0267 Cytopathology. (Moved from)
Moved from 60.0267 to 60.0512

60.0268 Geriatric Medicine (Internal Medicine). (Deleted)
Deleted, Report under 60.0520

60.0269 Pediatric Urology. (Moved from)
Moved from 60.0269 to 60.0567

60.0270 Physical Medicine and Rehabilitation/Psychiatry. (Moved from)
Moved from 60.0270 to 60.0568

60.0271 Orthopedic Surgery of the Spine. (Moved from)
Moved from 60.0271 to 60.0547

60.0299 Medical Residency Programs, Other. (Deleted)
Deleted, Report under 60.04, 60.05

60.03 Veterinary Residency Programs. (No substantive changes)
Instructional content for this group of programs is defined in codes 60.0301 - 60.0399.

60.0301 Veterinary Anesthesiology Residency Program. (No substantive changes)
A residency training program that prepares veterinarians in the application of anesthesia for general and specialized surgery and obstetrics, critical animal care and the care of pain problems. Includes instruction in surgical procedures, current monitoring procedures, fluid therapy, pain management, diagnostic and therapeutic procedures outside the operating room, and operating room safety.

60.0302 Veterinary Dentistry Residency Program. (No substantive changes)
A residency training program that prepares veterinarians in the application of dental care procedures to the teeth, eating surfaces, and oral cavities of animals. Includes instruction in the prevention, diagnosis, and treatment of diseases and abnormalities of animal teeth and gums and related parts of the oral cavity; and related anatomical and physiological principles.

60.0303 Veterinary Dermatology Residency Program. (No substantive changes)
A residency training program that prepares veterinarians in the delivery of specialized care to animals with diseases of the skin, scales, feathers, hair, nails and mucous membranes. Includes instruction in dermatologic surgical procedures, cutaneous allergies, and diagnostic and therapeutic techniques.

60.0304 Veterinary Emergency and Critical Care Medicine Residency Program. (No substantive changes)
A residency training program that prepares veterinarians in the emergency treatment and management of care for animals with acutely life-threatening conditions which may include multiple organ failure. Includes instruction in the management of critical care units, emergency procedures, and long-term care of critically diseased animals.

60.0305 Veterinary Internal Medicine Residency Program. (No substantive changes)
A residency training program that prepares veterinarians in the provision of general medical services to animals with a wide range of non-surgical clinical problems. Includes instruction in behavioral aspects of diseases, animal diagnosis, animal aging, and referral procedures.

60.0306 Laboratory Animal Medicine Residency Program. (No substantive changes)
A residency training program that prepares veterinarians in the principles and practices of applied veterinary research and related techniques, equipment, data systems and research design. Includes instruction in the management of veterinary and other animal research laboratories and health care facilities.

60.0307 Veterinary Microbiology Residency Program. (No substantive changes)
A residency training program that prepares veterinarians in clinical applications of research on harmful microorganisms, including viruses, and of the disease processes they induce in animals.

60.0308 Veterinary Nutrition Residency Program. (No substantive changes)
A residency training program that prepares veterinarians to apply research on the chemical nature of food substances; the processes by which animals ingest, digest, absorb, transport, utilize and excrete food and nutrients; and their relation to animal behavior and health.

60.0309 Veterinary Ophthalmology Residency Program. (No substantive changes)
A residency training program that prepares veterinarians in the diagnosis, prevention, and treatment of ophthalmic diseases and disorders in animals, and related ocular pathology procedures. Includes instruction in animal eye surgery.

60.0310 Veterinary Pathology Residency Program. (No substantive changes)
A residency training program that prepares veterinarians in the clinical laboratory analysis and diagnosis of diseased animal tissues and anatomic abnormalities. Includes instruction in performing general autopsies, forensic medicine, laboratory management and quality control.

60.0311 Veterinary Practice Residency Program. (No substantive changes)
A residency training program that prepares veterinarians in the provision of regular and long-term care to animals, health services to owners, and the management of independent veterinary practices. Includes instruction in comprehensive care and specialist referral, basic surgery, emergency medical procedures, and diagnostic imaging.

60.0312 Veterinary Preventive Medicine Residency Program. (No substantive changes)
A residency training program that prepares veterinarians in the investigation of and intervention in health and disease problems of animal and related human communities, comparative medicine, and animal public health. Includes instruction in biostatistics, epidemiology, environmental control, toxicology and the planning and administration of animal health programs and services.

60.0313 Veterinary Radiology Residency Program. (No substantive changes)

A residency training program that prepares veterinarians in the use of radiologic imaging and therapies to diagnose and treat animal diseases and health problems. Includes instruction in the use and handling of equipment for radionuclides detection and application.

60.0314 Veterinary Surgery Residency Program. (No substantive changes)

A residency training program that prepares veterinarians in the care and treatment of animal diseases and disorders via invasive procedures and the etiology, pathogenesis, diagnosis and management of physical disorders. Includes instruction in clinical and operative skills, pre-operative and post-operative care, trauma management, endoscopic techniques, and applications to large and small animal medicine.

60.0315 Theriogenology Residency Program. (No substantive changes)

A residency training program that prepares veterinarians in the diagnosis, prevention and treatment of diseases and health problems affecting the reproductive systems of animals, and the comprehensive care and treatment of parent animals, animal fetuses and newborn or newly hatched animals throughout the gestation period.

60.0316 Veterinary Toxicology Residency Program. (No substantive changes)

A residency training program that prepares veterinarians in the clinical application of research on the nature and extent of adverse effects of synthetic and naturally occurring chemical substances on animals. Includes instruction in chemical mechanisms and the specialties of reproductive, developmental, genetic, forensic, inhalation and neurobehavioral toxicology.

60.0317 Zoological Medicine Residency Program. (No substantive changes)

A residency training program that prepares veterinarians in the specialized treatment and care of zoo animals, performing animals, and animals living in the wild. Includes instruction in the principles and procedures used in the observation, diagnosis, care and treatment of illness, disease, injury, deformity, or other anomalies in non-domesticated animals.

60.0318 Poultry Veterinarian Residency Program. (New)

A residency training program that prepares veterinarians to work in the commercial poultry industry, providing services and technical support pertaining to prevention, diagnosis, and management of disease; epidemiology; genetics; and nutrition.

60.0319 Veterinary Behaviorist Residency Program. (New)

A residency training program that prepares veterinarians to understand and treat the behavioral problems of animals, primarily through the application of behavior modification techniques to companion animals; may also involve diagnosis of medical conditions that can affect a pet's behavior, and the use of medication in conjunction with behavior modification therapy.

60.0320 Veterinary Clinical Pharmacology Residency Program. (New)

A residency training program that prepares veterinarians to apply advanced knowledge of the chemical properties and biological effects of drugs to rational drug therapy in animal patients. Includes instruction in the comparative pharmacology of principal drug groups, pharmacokinetics, basic mechanisms and features of diseases occurring in domesticated animals, the role of drugs in modifying the disease process, and specific skills critical to the practice of clinical pharmacology.

60.0399 Veterinary Residency Programs, Other. (No substantive changes)

Any residency training program in veterinary medicine not listed above.

60.04 Medical Residency Programs - General Certificates. (New)

Instructional content for this group of programs is defined in codes 60.0401 - 60.0499.

60.0401 Aerospace Medicine Residency Program. (Moved to) *CIP Title or Definition Changed*

A residency training program that prepares physicians in the health care of operating crews, support personnel, and passengers of air and space vehicles. Includes instruction in special conditions of physical and psychological stress, emergency medical procedures, adaptive systems and artificial environments. One of three general certificates in the area of preventive medicine.

60.0402 Allergy and Immunology Residency Program. (Moved to)

A residency training program that prepares physicians in the delivery of skilled medical care to patients suffering from allergic, asthmatic and immunologic diseases. Requires completion of a prior program in internal medicine or pediatrics.

60.0403 Anesthesiology Residency Program. (Moved to)

A residency training program that prepares physicians in the application of anesthesia for general and specialized surgery and obstetrics, critical patient care and the care of pain problems. Includes instruction in surgical procedures, current monitoring procedures, fluid therapy, pain management, diagnostic and therapeutic procedures outside the operating room, and operating room safety.

60.0404 Child Neurology Residency Program. (Moved to) *CIP Title or Definition Changed*

A residency training program that prepares physicians in the diagnosis and management of neurologic disorders of the neonatal period, infancy, early childhood, and adolescence. Requires training in neurology with additional training in child neurology.

Examples:

- Neurology with Special Qualifications in Child Neurology Residency Program
- Pediatric Neurology Residency Program

60.0405 Clinical Biochemical Genetics Residency Program. (New)

A residency training program that prepares physicians to perform and interpret biochemical analyses relevant to the diagnosis and management of human genetic diseases, and to serve as a consultant regarding laboratory diagnosis of a broad range of inherited disorders. One of four general certificates in the area of medical genetics.

60.0406 Clinical Cytogenetics Residency Program. (New)

A residency training program that prepares physicians to provide laboratory diagnostic and clinical interpretive services dealing with chromosomes associated with inherited disorders and cancer. One of four general certificates in the area of medical genetics.

60.0407 Clinical Genetics Residency Program. (New)

A residency training program that prepares physicians to provide comprehensive diagnostic, management, and counseling services for individuals and families at risk for clinical disorders with a genetic basis. One of four general certificates in the area of medical genetics.

60.0408 Clinical Molecular Genetics Residency Program. (New)

A residency training program that prepares physicians to perform and interpret molecular analyses relevant to the diagnosis and management of human genetic diseases, and to serve as a consultant regarding laboratory diagnosis of a broad range of inherited disorders. One of four general certificates in the area of medical genetics.

60.0409 Colon and Rectal Surgery Residency Program. (Moved to)

A residency training program that prepares physicians in the surgical care of patients with anorectal and colonic diseases. Also includes instruction in diagnostic and therapeutic colonoscopy. Requires prior completion of a program in general surgery.

60.0410 Dermatology Residency Program. (Moved to)

A residency training program that prepares physicians in the delivery of specialized care to patients with diseases of the skin, hair, nails and mucous membranes. Includes instruction in dermatologic surgical procedures, cutaneous allergies, sexually transmitted diseases, and diagnostic and therapeutic techniques.

60.0411 Diagnostic Radiology Residency Program. (Moved to) *CIP Title or Definition Changed*

A residency training program that prepares physicians to utilize x-ray, ionizing radiation, radionuclides, ultrasound, electromagnetic radiation, and image-guided intervention to diagnose and treat disease. One of two general certificates in the area of radiology.

60.0412 Emergency Medicine Residency Program. (Moved to)

A residency training program that prepares physicians in the methods, procedures, and techniques of providing and managing immediate health care services. Includes instruction in the initial recognition, stabilization, evaluation and care of the acutely ill or injured patient; patient follow-up and referral; management of prehospital care; training and supervision of emergency medical personnel; emergency department management; medicolegal and ethical issues; and disaster planning.

60.0413 Family Medicine Residency Program. (Moved to)

A residency training program that prepares physicians in the provisions of regular and long-term care to individuals and family members. Includes instruction in comprehensive care and specialist referral, basic surgery, emergency medical procedures, and diagnostic imaging and practice management.

60.0414 General Surgery Residency Program. (Moved to)

A residency training program that prepares physicians in the care and treatment of diseases and disorders via invasive procedures and the etiology, pathogenesis, diagnosis and management of physical disorders. Includes instruction in clinical and operative skills, pre-operative and post-operative care, trauma management and endoscopic techniques.

Examples:

- Surgery Residency Program

60.0415 Internal Medicine Residency Program. (Moved to)

A residency training program that prepares physicians in the provision of general medical services to adult patients with a wide range of non-surgical clinical problems. Includes instruction in behavioral aspects of diseases, patient and family counseling and practice management.

60.0416 Neurological Surgery Residency Program. (Moved to) *CIP Title or Definition Changed*

A residency training program that prepares physicians in the prevention, diagnosis, evaluation, treatment, critical care, and rehabilitation of disorders of the central, peripheral, and autonomic nervous systems, using operative and non-operative means; the evaluation and treatment of pathological processes that modify the function or activity of the nervous system; and the management of pain.

Examples:

- Neurological Surgery/Neurosurgery Residency Program

60.0417 Neurology Residency Program. (Moved to) *CIP Title or Definition Changed*

A residency training program that prepares physicians in the diagnosis and treatment of all types of disease or impaired function of the brain, spinal cord, peripheral nerves, muscles and autonomic nervous system, as well as the blood vessels that relate to these structures.

60.0418 Nuclear Medicine Residency Program. (Moved to) *CIP Title or Definition Changed*

A residency training program that prepares physicians to use the tracer principle, most often with radiopharmaceuticals, to evaluate molecular, metabolic, physiologic and pathologic conditions of the body for the purposes of diagnosis, therapy and research.

Includes instruction in tracer kinetics, the biologic effects of radiation exposure, the fundamentals of the physical sciences, and the principles and operation of radiation detection and imaging systems.

60.0419 Obstetrics and Gynecology Residency Program. (Moved to)

A residency training program that prepares physicians in the diagnosis, prevention and treatment of diseases of women, especially those affecting the reproductive system, and the comprehensive care and treatment of women before, during and after childbirth.

60.0420 Occupational Medicine Residency Program. (Moved to)

A residency training program that prepares physicians in the maintenance of the health of workers, the ability to perform work, the arrangements of work, and the physical and chemical environments of the workplace. Includes instruction in data collection and management and the administration and regulation of occupational medical services. One of three general certificates in the area of preventive medicine.

60.0421 Ophthalmology Residency Program. (Moved to)

A residency training program that prepares physicians in the diagnosis, prevention treatment of ophthalmic diseases and disorders, and ocular pathology procedures. Includes instruction in eye surgery.

60.0422 Orthopedic Surgery Residency Program. (Moved to)*CIP Title or Definition Changed*

A residency training program that prepares physicians in the investigation, preservation, and restoration of the form and function of the extremities, spine and associated structures by medical, surgical and physical methods.

Examples:

- Orthopedics Residency Program
- Adult Reconstructive Orthopedics Residency Program
- Orthopaedic Surgery Residency Program

60.0423 Otolaryngology Residency Program. (Moved to)*CIP Title or Definition Changed*

A residency training program that prepares physicians to diagnose and provide medical and/or surgical therapy or prevention of diseases, allergies, neoplasms, deformities, disorders, and injuries of the ears, nose, sinuses, throat, respiratory and upper alimentary systems, face, jaws, and the other head and neck systems.

60.0424 Pathology Residency Program. (Moved to)

A residency training program that prepares physicians in the clinical laboratory analysis and diagnosis of disease and anatomic abnormalities. Includes instruction in performing general autopsies, forensic medicine, laboratory management and quality control.

Examples:

- Anatomic Pathology Residency Program
- Clinical Pathology Residency Program
- Anatomic Pathology and Clinical Pathology Residency Program

60.0425 Pediatrics Residency Program. (Moved to)

A residency training program that prepares physicians in the comprehensive care and treatment of all aspects of human growth and development from conception through fetal life, infancy, childhood and adolescence, including preventive and therapeutic regimes. Includes instruction in behavioral aspects of illness, related family and community medicine issues, and emergency and critical care procedures.

60.0426 Physical Medicine and Rehabilitation Residency Program. (Moved to)*CIP Title or Definition Changed*

A residency training program that prepares physicians in the diagnosis, etiology, treatment, prevention and rehabilitation of neuromusculo-skeletal, cardiovascular, pulmonary and other system disorders common to patients of both sexes and all ages. Includes instruction in physical examinations, design and prescription of rehabilitation strategies and the supervision of rehabilitation teams.

Examples:

- Physical and Rehabilitation Medicine Residency Program

60.0427 Plastic Surgery Residency Program. (Moved to)

A residency training program that prepares physicians in the repair, replacement and reconstruction of defects of form and function of the integument and its underlying musculoskeletal system, with emphasis on the craniofacial structures, the oropharynx, the hand, the breast and the external genitalia. Includes instruction in aesthetic as well as reconstructive surgery. Requires prior completion of a program in general surgery.

60.0428 Psychiatry Residency Program. (Moved to)*CIP Title or Definition Changed*

A residency training program that prepares physicians in the diagnosis, treatment, and prevention of mental, emotional, behavioral and neurological disorders. Includes instruction in psychotherapy, family counseling, referral, clinical diagnosis, and practice management.

60.0429 Public Health and General Preventive Medicine Residency Program. (New)

A residency training program that prepares physicians to promote health, prevent disease, and manage the health of communities and defined populations; combines population-based public health skills with knowledge of primary, secondary, and tertiary prevention-oriented clinical practice in a wide variety of settings. One of three general certificates in the area of preventive medicine. Note: this medical specialty merges the previous subspecialties of preventive medicine and public health medicine.

Examples:

- Public Health Medicine Residency Program

- Preventive Medicine Residency Program

60.0430 Radiation Oncology Residency Program. (Moved to)

A residency training program that prepares physicians in the use of ionizing radiation to treat patients with cancer and other diseases. Includes instruction in treatment planning, instrument design and operation, radiation physics and radiobiology. One of two general certificates in the area of radiology.

60.0431 Radiologic Physics Residency Program. (New)

A residency training program that prepares physicians in that branch of physics which includes the physical aspects of radiation therapy, radiologic diagnosis, and/or nuclear medicine. Radiologic physicists must specialize in at least one of the three subspecialty areas: therapeutic radiological physics, diagnostic radiological physics, and/or medical nuclear physics.

60.0432 Thoracic Surgery Residency Program. (Moved to)

A residency training program that prepares physicians in the evaluation and surgical treatment of pulmonary, esophageal, mediastinal, chest wall, diaphragmatic and cardiovascular disorders. Includes instruction in bronchoscopy and esophagoscopy. Requires prior completion of a program in general surgery.

60.0433 Urology Residency Program. (Moved to) *CIP Title or Definition Changed*

A residency training program that prepares physicians to manage congenital and acquired conditions of the genitourinary system and contiguous structures including the adrenal gland, including conditions extending from the fetus to the elderly and which may be benign or malignant. This specialist is skilled in medical and open surgical therapy of these conditions, as well as endoscopic, percutaneous, and other minimally invasive methods.

60.0434 Vascular Surgery Residency Program. (Moved to) *CIP Title or Definition Changed*

A residency training program that prepares physicians in the surgical treatment of diseases and disorders of the arterial, venous and lymphatic circulatory systems and of the heart and thoracic aorta.

60.0499 Medical Residency Programs - General Certificates, Other. (New)

Any general-certificate medical residency program not listed above.

60.05 Medical Residency Programs - Subspecialty Certificates. (New)

Instructional content for this group of programs is defined in codes 60.0501 - 60.0599.

60.0501 Addiction Psychiatry Residency Program. (New)

A residency training program that prepares physicians in the evaluation and treatment of individuals with alcohol, drug, or other substance-related disorders, and of individuals with the dual diagnosis of substance-related and other psychiatric disorders. Requires prior completion of a program in psychiatry.

60.0502 Adolescent Medicine Residency Program. (New)

A residency training program that prepares physicians in the unique physical, psychological, and social characteristics of adolescents and their healthcare problems and needs. Requires prior completion of a program in family medicine, internal medicine, or pediatrics.

60.0503 Blood Banking/Transfusion Medicine Residency Program. (Moved to) *CIP Title or Definition Changed*

A residency training program that prepares physicians for the maintenance of an adequate blood supply, blood donor and patient-recipient safety, and appropriate blood utilization. Includes directing the preparation and safe use of specially prepared blood components, including red blood cells, white blood cells, platelets and plasma constituents, and marrow or stem cells for transplantation. Requires prior completion of a program in pathology.

Examples:

- Blood Banking Residency Program

60.0504 Cardiovascular Disease Residency Program. (Moved to) *CIP Title or Definition Changed*

A residency training program that prepares physicians to specialize in diseases of the heart and blood vessels and to manage complex cardiac conditions such as heart attacks and life-threatening, abnormal heartbeat rhythms. Requires prior completion of a program in internal medicine.

Examples:

- Cardiology Residency Program

60.0505 Chemical Pathology Residency Program. (Moved to)

A residency training program that prepares physicians in the use and interpretation of chemical analyses, chemical diagnoses and management, and the supervision of chemical pathology laboratories. Includes instruction in basic and applied analytical chemical pathology; instrumentation data processing and chemical laboratory management. Requires prior completion of a program in medical pathology.

60.0506 Child Abuse Pediatrics Residency Program. (New)

A residency training program that prepares physicians to accurately diagnose abuse, consult with community agencies on child safety, provide expertise in courts of law, treat consequences of abuse and neglect, direct child abuse and neglect prevention programs and participate on multidisciplinary investigative teams, and manage child abuse cases. Requires prior completion of a program in pediatrics.

embolization, biliary and genitourinary drainages, and abscess drainages. Requires prior completion of a program in diagnostic radiology.

60.0584 Vascular Neurology Residency Program. (New)

A residency training program that prepares physicians in the evaluation, prevention, treatment, and recovery from vascular diseases of the nervous system resulting from a large number of causes, such as ischemic stroke, intracranial hemorrhage, spinal cord ischemia, and spinal cord hemorrhage. Requires prior completion of a program in neurology or child neurology.

60.0599 Medical Residency Programs - Subspecialty Certificates, Other. (New)

Any subspecialty-certificate medical residency program not listed above.

60.06 Podiatric Medicine Residency Programs. (New)

Instructional content for this group of programs is defined in codes 60.0601 - 60.0602.

60.0601 Podiatric Medicine and Surgery - 24 Residency Program. (New)

A two-year residency training program that prepares podiatrists for primary practice in podiatric healthcare and foot surgery certification. This includes diagnosis and treatment of conditions affecting the human foot, ankle, and their governing and related structures, including the leg, and the local manifestations of systemic conditions, by all appropriate systems and means.

60.0602 Podiatric Medicine and Surgery - 36 Residency Program. (New)

A three-year residency training program that prepares podiatrists for primary practice in podiatric healthcare, foot surgery certification, and reconstructive rearfoot and ankle surgery.