

To: All SEVIS Users

Date: May 11, 2012

Re: Additions to the STEM-Designated Degree Program List

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Comments

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General Information

The Department of Homeland Security (DHS) has [announced](#) additions to the list of Classification of Instructional Program (CIP) codes that are DHS-approved for the 17-month extension originally cited in the April 2008, DHS interim final rule (IFR). This IFR extended by 17 months the period of optional practical training (OPT) for a postsecondary student who graduates with a science, technology, engineering or mathematics (STEM) degree (73 FR 18944). The IFR authorized application for a 17-month extension of the 12-month OPT period for any nonimmigrant student who has graduated with a degree in a program of study in a subject with a CIP code that is DHS-approved for the extension.

Because of the dynamic nature of STEM-related education and training, DHS continues to review emerging fields for possible inclusion in the list of eligible STEM degree programs. As a result of its latest review, DHS is adding to the list of degree programs with CIP codes ending in “99” for certain CIP code families. Though the supplementary information associated with the 2008 regulation states that such “99” codes are not eligible STEM-designated degrees, DHS is now proposing that “99” codes be eligible STEM degree programs – but only those where every other degree in the immediate CIP code family qualifies as an eligible STEM field. DHS has found, since the publication of the 2008 regulation, that students in new and important STEM degree programs in emerging fields classified under “99” CIP codes have not been able to take advantage of the OPT extension. DHS believes that allowing students in such emerging fields to be eligible for OPT extension is in the national interest and should be encouraged.

The chart below is the second revision to the April 2008 list. All highlighted degree programs and CIP codes are now eligible for the 17-month extension of OPT.

STEM-Designated Degree Program List

1.0308	Agroecology and Sustainable Agriculture.	1.0906	Livestock Management
1.0901	Animal Sciences, General	1.0907	Poultry Science
1.0902	Agricultural Animal Breeding	1.0999	Animal Sciences, Other.
1.0903	Animal Health	1.1001	Food Science
1.0904	Animal Nutrition	1.1002	Food Technology and Processing
1.0905	Dairy Science	1.1099	Food Science and Technology, Other.

1.1101	Plant Sciences, General
1.1102	Agronomy and Crop Science
1.1103	Horticultural Science
1.1104	Agricultural and Horticultural Plant Breeding
1.1105	Plant Protection and Integrated Pest Management
1.1106	Range Science and Management
1.1199	Plant Sciences, Other.
1.1201	Soil Science and Agronomy, General
1.1202	Soil Chemistry and Physics
1.1203	Soil Microbiology
1.1299	Soil Sciences, Other.
3.0101	Natural Resources/Conservation, General.
3.0103	Environmental Studies.
3.0104	Environmental Science
3.0199	Natural Resources Conservation and Research, Other.
3.0205	Water, Wetlands, and Marine Resources Management.
3.0502	Forest Sciences and Biology
3.0508	Urban Forestry.
3.0509	Wood Science and Wood Products/Pulp and Paper Technology
3.0601	Wildlife, Fish and Wildlands Science and Management.
4.0902	Architectural and Building Sciences/Technology.
9.0702	Digital Communication and Media/Multimedia
10.0304	Animation, Interactive Technology, Video Graphics and Special Effects
11.0101	Computer and Information Sciences, General
11.0102	Artificial Intelligence
11.0103	Information Technology
11.0104	Informatics
11.0199	Computer and Information Sciences, Other.

11.0201	Computer Programming/Programmer, General
11.0202	Computer Programming, Specific Applications
11.0203	Computer Programming, Vendor/Product Certification
11.0299	Computer Programming, Other.
11.0301	Data Processing and Data Processing Technology/Technician
11.0401	Information Science/Studies
11.0501	Computer Systems Analysis/Analyst
11.0701	Computer Science
11.0801	Web Page, Digital/Multimedia and Information Resources Design
11.0802	Data Modeling/Warehousing and Database Administration
11.0803	Computer Graphics
11.0804	Modeling, Virtual Environments and Simulation
11.0899	Computer Software and Media Applications, Other.
11.0901	Computer Systems Networking and Telecommunications
11.1001	Network and System Administration/Administrator
11.1002	System, Networking, and LAN/WAN Management/Manager
11.1003	Computer and Information Systems Security/Information Assurance
11.1004	Web/Multimedia Management and Webmaster
11.1005	Information Technology Project Management
11.1006	Computer Support Specialist
11.1099	Computer/Information Technology Services Administration and Management, Other.

13.0501	Educational/Instructional Technology.
13.0601	Educational Evaluation and Research.
13.0603	Educational Statistics and Research Methods
14.0101	Engineering, General
14.0102	Pre-Engineering
14.0201	Aerospace, Aeronautical and Astronautical/Space Engineering
14.0301	Agricultural Engineering
14.0401	Architectural Engineering
14.0501	Bioengineering and Biomedical Engineering
14.0601	Ceramic Sciences and Engineering
14.0701	Chemical Engineering
14.0702	Chemical and Biomolecular Engineering
14.0799	Chemical Engineering, Other.
14.0801	Civil Engineering, General
14.0802	Geotechnical and Geoenvironmental Engineering
14.0803	Structural Engineering
14.0804	Transportation and Highway Engineering
14.0805	Water Resources Engineering
14.0899	Civil Engineering, Other.
14.0901	Computer Engineering, General
14.0902	Computer Hardware Engineering
14.0903	Computer Software Engineering
14.0999	Computer Engineering, Other.
14.1001	Electrical and Electronics Engineering
14.1003	Laser and Optical Engineering
14.1004	Telecommunications Engineering
14.1099	Electrical, Electronics and Communications Engineering, Other.
14.1101	Engineering Mechanics
14.1201	Engineering Physics/Applied Physics
14.1301	Engineering Science

14.1401	Environmental/Environmental Health Engineering
14.1801	Materials Engineering
14.1901	Mechanical Engineering
14.2001	Metallurgical Engineering
14.2101	Mining and Mineral Engineering
14.2201	Naval Architecture and Marine Engineering
14.2301	Nuclear Engineering
14.2401	Ocean Engineering
14.2501	Petroleum Engineering
14.2701	Systems Engineering
14.2801	Textile Sciences and Engineering
14.3201	Polymer/Plastics Engineering
14.3301	Construction Engineering
14.3401	Forest Engineering
14.3501	Industrial Engineering
14.3601	Manufacturing Engineering
14.3701	Operations Research
14.3801	Surveying Engineering
14.3901	Geological/Geophysical Engineering
14.4001	Paper Science and Engineering
14.4101	Electromechanical Engineering
14.4201	Mechatronics, Robotics, and Automation Engineering
14.4301	Biochemical Engineering
14.4401	Engineering Chemistry
14.4501	Biological/Biosystems Engineering
14.9999	Engineering, Other.
15.0000	Engineering Technology, General
15.0101	Architectural Engineering Technology/Technician
15.0201	Civil Engineering Technology/Technician
15.0303	Electrical, Electronic and Communications Engineering Technology/Technician
15.0304	Laser and Optical Technology/Technician
15.0305	Telecommunications Technology/Technician

15.0306	Integrated Circuit Design
15.0399	Electrical and Electronic Engineering Technologies/Technicians, Other.
15.0401	Biomedical Technology/Technician
15.0403	Electromechanical Technology/Electromechanical Engineering Technology
15.0404	Instrumentation Technology/Technician
15.0405	Robotics Technology/Technician
15.0406	Automation Engineer Technology/Technician
15.0499	Electromechanical and Instrumentation and Maintenance Technologies/Technicians, Other.
15.0501	Heating, Ventilation, Air Conditioning and Refrigeration Engineering Technology/Technician
15.0503	Energy Management and Systems Technology/Technician
15.0505	Solar Energy Technology/Technician.
15.0506	Water Quality and Wastewater Treatment Management and Recycling Technology/Technician
15.0507	Environmental Engineering Technology/Environmental Technology
15.0508	Hazardous Materials Management and Waste Technology/Technician
15.0599	Environmental Control Technologies/Technicians, Other.
15.0607	Plastics and Polymer Engineering Technology/Technician
15.0611	Metallurgical Technology/Technician
15.0612	Industrial Technology/Technician
15.0613	Manufacturing Engineering Technology/Technician

15.0614	Welding Engineering Technology/Technician
15.0615	Chemical Engineering Technology/Technician
15.0616	Semiconductor Manufacturing Technology
15.0699	Industrial Production Technologies/Technicians, Other.
15.0701	Occupational Safety and Health Technology/Technician
15.0702	Quality Control Technology/Technician
15.0703	Industrial Safety Technology/Technician
15.0704	Hazardous Materials Information Systems Technology/Technician
15.0799	Quality Control and Safety Technologies/Technicians, Other.
15.0801	Aeronautical/Aerospace Engineering Technology/Technician
15.0803	Automotive Engineering Technology/Technician
15.0805	Mechanical Engineering/Mechanical Technology/Technician
15.0899	Mechanical Engineering Related Technologies/Technicians, Other.
15.0901	Mining Technology/Technician
15.0903	Petroleum Technology/Technician
15.0999	Mining and Petroleum Technologies/Technicians, Other.
15.1001	Construction Engineering Technology/Technician
15.1102	Surveying Technology/Surveying
15.1103	Hydraulics and Fluid Power Technology/Technician
15.1199	Engineering-Related Technologies, Other.
15.1201	Computer Engineering Technology/Technician
15.1202	Computer Technology/Computer Systems Technology

15.1203	Computer Hardware Technology/Technician
15.1204	Computer Software Technology/Technician
15.1299	Computer Engineering Technologies/Technicians, Other.
15.1301	Drafting and Design Technology/Technician, General
15.1302	CAD/CADD Drafting and/or Design Technology/Technician
15.1303	Architectural Drafting and Architectural CAD/CADD
15.1304	Civil Drafting and Civil Engineering CAD/CADD
15.1305	Electrical/Electronics Drafting and Electrical/Electronics CAD/CADD
15.1306	Mechanical Drafting and Mechanical Drafting CAD/CADD
15.1399	Drafting/Design Engineering Technologies/Technicians, Other.
15.1401	Nuclear Engineering Technology/Technician
15.1501	Engineering/Industrial Management
15.1502	Engineering Design
15.1503	Packaging Science
15.1599	Engineering-Related Fields, Other.
15.1601	Nanotechnology
15.9999	Engineering Technologies and Engineering-Related Fields, Other.
26.0101	Biology/Biological Sciences, General
26.0102	Biomedical Sciences, General
26.0202	Biochemistry
26.0203	Biophysics
26.0204	Molecular Biology
26.0205	Molecular Biochemistry
26.0206	Molecular Biophysics
26.0207	Structural Biology
26.0208	Photobiology
26.0209	Radiation Biology/Radiobiology

26.0210	Biochemistry and Molecular Biology
26.0299	Biochemistry, Biophysics and Molecular Biology, Other.
26.0301	Botany/Plant Biology
26.0305	Plant Pathology/Phytopathology
26.0307	Plant Physiology
26.0308	Plant Molecular Biology
26.0399	Botany/Plant Biology, Other.
26.0401	Cell/Cellular Biology and Histology
26.0403	Anatomy
26.0404	Developmental Biology and Embryology
26.0406	Cell/Cellular and Molecular Biology
26.0407	Cell Biology and Anatomy
26.0499	Cell/Cellular Biology and Anatomical Sciences, Other.
26.0502	Microbiology, General
26.0503	Medical Microbiology and Bacteriology
26.0504	Virology
26.0505	Parasitology
26.0506	Mycology
26.0507	Immunology
26.0508	Microbiology and Immunology
26.0599	Microbiological Sciences and Immunology, Other.
26.0701	Zoology/Animal Biology
26.0702	Entomology
26.0707	Animal Physiology
26.0708	Animal Behavior and Ethology
26.0709	Wildlife Biology
26.0799	Zoology/Animal Biology, Other.
26.0801	Genetics, General
26.0802	Molecular Genetics
26.0803	Microbial and Eukaryotic Genetics
26.0804	Animal Genetics
26.0805	Plant Genetics
26.0806	Human/Medical Genetics

26.0807	Genome Sciences/Genomics
26.0899	Genetics, Other.
26.0901	Physiology, General
26.0902	Molecular Physiology
26.0903	Cell Physiology
26.0904	Endocrinology
26.0905	Reproductive Biology
26.0907	Cardiovascular Science
26.0908	Exercise Physiology
26.0909	Vision Science/Physiological Optics
26.0910	Pathology/Experimental Pathology
26.0911	Oncology and Cancer Biology
26.0912	Aerospace Physiology and Medicine
26.0999	Physiology, Pathology, and Related Sciences, Other.
26.1001	Pharmacology
26.1002	Molecular Pharmacology
26.1003	Neuropharmacology
26.1004	Toxicology
26.1005	Molecular Toxicology
26.1006	Environmental Toxicology
26.1007	Pharmacology and Toxicology
26.1099	Pharmacology and Toxicology, Other.
26.1101	Biometry/Biometrics
26.1102	Biostatistics
26.1103	Bioinformatics
26.1104	Computational Biology
26.1199	Biomathematics, Bioinformatics, and Computational Biology, Other.
26.1201	Biotechnology
26.1301	Ecology
26.1302	Marine Biology and Biological Oceanography
26.1303	Evolutionary Biology
26.1304	Aquatic Biology/Limnology
26.1305	Environmental Biology

26.1306	Population Biology
26.1307	Conservation Biology
26.1308	Systematic Biology/Biological Systematics
26.1309	Epidemiology
26.1310	Ecology and Evolutionary Biology
26.1399	Ecology, Evolution, Systematics and Population Biology, Other.
26.1401	Molecular Medicine
26.1501	Neuroscience
26.1502	Neuroanatomy
26.1503	Neurobiology and Anatomy
26.1504	Neurobiology and Behavior
26.1599	Neurobiology and Neurosciences, Other.
26.9999	Biological and Biomedical Sciences, Other.
27.0101	Mathematics, General
27.0102	Algebra and Number Theory
27.0103	Analysis and Functional Analysis
27.0104	Geometry/Geometric Analysis
27.0105	Topology and Foundations
27.0199	Mathematics, Other.
27.0301	Applied Mathematics, General
27.0303	Computational Mathematics
27.0304	Computational and Applied Mathematics
27.0305	Financial Mathematics
27.0306	Mathematical Biology
27.0399	Applied Mathematics, Other.
27.0501	Statistics, General
27.0502	Mathematical Statistics and Probability
27.0503	Mathematics and Statistics
27.0599	Statistics, Other.
27.9999	Mathematics and Statistics, Other.
28.0501	Air Science/Airpower Studies.
28.0502	Air and Space Operational Art and Science.
28.0505	Naval Science and Operational Studies.

29.0201	Intelligence, General
29.0202	Strategic Intelligence
29.0203	Signal/Geospatial Intelligence
29.0204	Command & Control (C3, C4I) Systems and Operations
29.0205	Information Operations/Joint Information Operations
29.0206	Information/Psychological Warfare and Military Media Relations
29.0207	Cyber/Electronic Operations and Warfare
29.0299	Intelligence, Command Control and Information Operations, Other.
29.0301	Combat Systems Engineering
29.0302	Directed Energy Systems
29.0303	Engineering Acoustics
29.0304	Low-Observables and Stealth Technology
29.0305	Space Systems Operations
29.0306	Operational Oceanography
29.0307	Undersea Warfare
29.0399	Military Applied Sciences, Other.
29.0401	Aerospace Ground Equipment Technology
29.0402	Air and Space Operations Technology
29.0403	Aircraft Armament Systems Technology
29.0404	Explosive Ordinance/Bomb Disposal
29.0405	Joint Command/Task Force (C3, C4I) Systems
29.0406	Military Information Systems Technology
29.0407	Missile and Space Systems Technology
29.0408	Munitions Systems/Ordinance Technology
29.0409	Radar Communications and Systems Technology
29.0499	Military Systems and Maintenance Technology, Other.

29.9999	Military Technologies and Applied Sciences, Other.
30.0101	Biological and Physical Sciences
30.0601	Systems Science and Theory
30.0801	Mathematics and Computer Science
30.1001	Biopsychology
30.1701	Behavioral Sciences.
30.1801	Natural Sciences
30.1901	Nutrition Sciences
30.2501	Cognitive Science
30.2701	Human Biology.
30.3001	Computational Science.
30.3101	Human Computer Interaction.
30.3201	Marine Sciences
30.3301	Sustainability Studies.
40.0101	Physical Sciences
40.0201	Astronomy
40.0202	Astrophysics
40.0203	Planetary Astronomy and Science
40.0299	Astronomy and Astrophysics, Other.
40.0401	Atmospheric Sciences and Meteorology, General
40.0402	Atmospheric Chemistry and Climatology
40.0403	Atmospheric Physics and Dynamics
40.0404	Meteorology
40.0499	Atmospheric Sciences and Meteorology, Other.
40.0501	Chemistry, General
40.0502	Analytical Chemistry
40.0503	Inorganic Chemistry
40.0504	Organic Chemistry
40.0506	Physical Chemistry
40.0507	Polymer Chemistry
40.0508	Chemical Physics
40.0509	Environmental Chemistry
40.0510	Forensic Chemistry
40.0511	Theoretical Chemistry

40.0599	Chemistry, Other.
40.0601	Geology/Earth Science, General
40.0602	Geochemistry
40.0603	Geophysics and Seismology
40.0604	Paleontology
40.0605	Hydrology and Water Resources Science
40.0606	Geochemistry and Petrology
40.0607	Oceanography, Chemical and Physical
40.0699	Geological and Earth Sciences/Geosciences, Other.
40.0801	Physics, General
40.0802	Atomic/Molecular Physics
40.0804	Elementary Particle Physics
40.0805	Plasma and High-Temperature Physics
40.0806	Nuclear Physics
40.0807	Optics/Optical Sciences
40.0808	Condensed Matter and Materials Physics
40.0809	Acoustics
40.0810	Theoretical and Mathematical Physics
40.0899	Physics, Other.
40.1001	Materials Science
40.1002	Materials Chemistry
40.1099	Materials Sciences, Other.
40.9999	Physical Sciences, Other.
41.0000	Science Technologies/Technicians, General
41.0101	Biology Technician/Biotechnology Laboratory Technician
41.0204	Industrial Radiologic Technology/Technician
41.0205	Nuclear/Nuclear Power Technology/Technician
41.0299	Nuclear and Industrial Radiologic Technologies/Technicians, Other.
41.0301	Chemical Technology/Technician
41.0303	Chemical Process Technology

41.0399	Physical Science Technologies/Technicians, Other.
41.9999	Science Technologies/Technicians, Other.
42.2701	Cognitive Psychology and Psycholinguistics
42.2702	Comparative Psychology
42.2703	Developmental and Child Psychology
42.2704	Experimental Psychology
42.2705	Personality Psychology
42.2706	Physiological Psychology/Psychobiology
42.2707	Social Psychology
42.2708	Psychometrics and Quantitative Psychology
42.2709	Psychopharmacology
42.2799	Research and Experimental Psychology, Other.
43.0106	Forensic Science and Technology
43.0116	Cyber/Computer Forensics and Counterterrorism.
45.0301	Archeology.
45.0603	Econometrics and Quantitative Economics.
45.0702	Geographic Information Science and Cartography
49.0101	Aeronautics/Aviation/Aerospace Science and Technology, General.
51.1002	Cytotechnology/Cytotechnologist.
51.1005	Clinical Laboratory Science/Medical Technology/Technologist.
51.1401	Medical Scientist
51.2003	Pharmaceutics and Drug Design
51.2004	Medicinal and Pharmaceutical Chemistry
51.2005	Natural Products Chemistry and Pharmacognosy
51.2006	Clinical and Industrial Drug Development.
51.2007	Pharmacoeconomics/Pharmaceutical Economics.

51.2009	Industrial and Physical Pharmacy and Cosmetic Sciences.
51.2010	Pharmaceutical Sciences.
51.2202	Environmental Health.
51.2205	Health/Medical Physics.
51.2502	Veterinary Anatomy
51.2503	Veterinary Physiology
51.2504	Veterinary Microbiology and Immunobiology
51.2505	Veterinary Pathology and Pathobiology
51.2506	Veterinary Toxicology and Pharmacology

51.2510	Veterinary Preventive Medicine Epidemiology and Public Health
51.2511	Veterinary Infectious Diseases
51.2706	Medical Informatics
52.1301	Management Science
52.1302	Business Statistics
52.1304	Actuarial Science
52.1399	Management Science and Quantitative Methods, Other

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