



## Boston University STEM Majors

On April 8, 2008, the Department of Homeland Security's Student and Exchange Visitor Program (SEVP) published an interim final rule permitting a seventeen month extension of Optional Practical Training employment authorization for students who have earned degrees in certain specific areas of science, technology, engineering and mathematics (STEM). SEVP has provided a list of CIP<sup>1</sup> codes which they have determined to be STEM fields eligible for the OPT extension. The list below is of Boston University majors that qualify as STEM majors along with their corresponding CIP codes. The list is in alphabetical order by BU major.

HEGIS Code	Boston University Major	CIP Code	CIP Description
0533	Actuarial Science	52.1304	Actuarial Science
0902	Aerospace Engineering	14.0201	Aerospace, Aeronautical and Astronautical Engineering
0932	Aerospace/Mechanical Engineering Department	14.0101	Engineering, General
0412	Anatomy	26.0403	Anatomy
0456	Anatomy & Neurobiology, Program in Cell & Molecular Biology	26.0406	Cell/Cellular and Molecular Biology (NEW)
0443	Anatomy and Neurobiology	26.0403	Anatomy
1923	Applied Chemistry	40.0501	Chemistry, General
1703	Applied Mathematics	27.0301	Applied Mathematics
1924	Applied Physics	40.0801	Physics, General
1911	Astronomy	40.0201	Astronomy
1955	Astronomy and Physics	40.0201	Astronomy
1965	Astronomy and Physics	40.0201	Astronomy
1912	Astrophysics	40.0202	Astrophysics
1928	Astrophysics and Space Physics	40.0202	Astrophysics
1913	Atmospheric Sciences	40.0401	Atmospheric Sciences and Meteorology, General
0403	Bacteriology	26.0503	Medical Microbiology and Bacteriology (NEW)
0460	Behavioral Neurosciences, Program in Cell&Molecular Biology	26.0406	Cell/Cellular and Molecular Biology (NEW)
0414	Biochemistry	26.0202	Biochemistry
0441	Biochemistry and Molecular Biology	26.0210	Biochemistry/Biophysics and Molecular Biology (NEW)
0454	Biochemistry, Program in Cell & Molecular Biology	26.0406	Cell/Cellular and Molecular Biology (NEW)
0499	Bioinformatics	26.1103	Bioinformatics (NEW)
0401	Biology	26.0101	Biology/Biological Sciences, General
0431	Biology with a Specialization in Marine Science	26.1302	Marine Biology and Biological Oceanography
0447	Biology, Specialization in Ecology and Conservation Biology	26.1307	Conservation Biology (NEW)
0905	Biomedical Engineering	14.0501	Biomedical/Medical Engineering
0439	Biophysics	26.0203	Biophysics
0455	Biophysics, Program in Cell & Molecular Biology	26.0406	Cell/Cellular and Molecular Biology (NEW)
0419	Biostatistics	26.1102	Biostatistics
0433	Biotechnology	26.1201	Biotechnology
0402	Botany, General	26.0301	Botany/Plant Biology
0446	Cell and Molecular Biology	26.0406	Cell/Cellular and Molecular Biology (NEW)
0417	Cell Biology	26.0401	Cell/Cellular Biology and Histology
1905	Chemistry	40.0501	Chemistry, General
1944	Chemistry with a Minor in Biology	40.0501	Chemistry, General
1982	Chemistry with a Minor in Computer Science	40.0501	Chemistry, General
1983	Chemistry with a Minor in Engineering	40.0501	Chemistry, General
1956	Chemistry with a Minor in Geology	40.0501	Chemistry, General
1958	Chemistry with a Minor in Mathematics	40.0501	Chemistry, General
1981	Chemistry with a Minor in Physics	40.0501	Chemistry, General
1278	Clinical Dermatology	51.1401	Medical Scientist (MS, PhD)
0432	Cognitive and Neural Systems	26.0906	Neurobiology and Neurophysiology (NEW)
0707	Computer Application Engineering	14.0903	Computer Software Engineering (NEW)
0712	Computer Application Engineering	14.0903	Computer Software Engineering (NEW)
5105	Computer Eng Tech	15.1201	Computer Engineering Technology/Technician
0930	Computer Engineering	14.0901	Computer Engineering, General
0702	Computer Information Systems	11.0401	Information Science/Studies
0704	Computer Programming	11.0201	Computer Programming/Programmer, General
0701	Computer Science	11.0701	Computer Science
0931	Computer Systems Engineering	14.0903	Computer Software Engineering (NEW)
0703	Data Processing	11.0301	Data Processing and Data Processing Technology/Technician
1207	Dermatology	51.1401	Medical Scientist (MS, PhD)
1209	Dermatology Specialty in Clinical Dermatology	51.1401	Medical Scientist (MS, PhD)
1210	Dermatology Specialty in Dermatopathology	51.1401	Medical Scientist (MS, PhD)
1917	Earth Science- Gener	40.0601	Geology/Earth Science, General
1926	Earth Sciences	40.0601	Geology/Earth Science, General

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0436	Ecological Science	26.1301	Ecology
0420	Ecology	26.1301	Ecology
0939	EE & C Engineering	14.1001	Electrical, Electronics and Communications Engineering
0933	Electrical and Computer Engineering Department	14.0101	Engineering, General
0909	Electrical Engineering	14.1001	Electrical, Electronics and Communications Engineering
0427	Embryology	26.0404	Developmental Biology and Embryology (NEW)
0941	Engineering	14.1301	Engineering Science
0913	Engineering Management	14.3601	Manufacturing Engineering (NEW)
0921	Engineering Mechanics	14.1101	Engineering Mechanics
0993	Engineering Science	14.1301	Engineering Science
0421	Entomology	26.0702	Entomology
0434	Environmental Science	26.1305	Environmental Biology (NEW)
1256	Epidemiology	26.1309	Epidemiology
1252	Epidemiology and Biostatistics	26.1309	Epidemiology
0901	General Engineering	14.0101	Engineering, General
0422	Genetics	26.0801	Genetics, General (NEW)
0444	Genetics and Genomics	26.0801	Genetics, General (NEW)
0463	Genetics and Genomics, Program in Cell and Molecular Biology	26.0801	Genetics, General (NEW)
1915	Geochemistry	40.0602	Geochemistry
0437	Geological Science	40.0601	Geology/Earth Science, General
1914	Geology	40.0601	Geology/Earth Science, General
1916	Geophysics & Seismol	40.0603	Geophysics and Seismology
1932	Geophysics and Planetary Sciences	40.0601	Geology/Earth Science, General
0927	Global Manufacturing	14.3601	Manufacturing Engineering (NEW)
0413	Histology	26.0401	Cell/Cellular Biology and Histology
0442	Hydrogeology	40.0605	Hydrology and Water Resources Science (NEW)
1270	Infectious Disease	51.1401	Medical Scientist (MS, PhD)
0991	Manufacturing Engineering	14.3601	Manufacturing Engineering (NEW)
0418	Marine Biology	26.1302	Marine Biology and Biological Oceanography
0440	Marine Science	26.1302	Marine Biology and Biological Oceanography
0915	Materials-Eng	14.1801	Materials Engineering
1931	Mathematical Astronomy	40.0201	Astronomy
1705	Mathematical Science	27.0101	Mathematics, General
1701	Mathematics	27.0101	Mathematics, General
1721	Mathematics and Computer Science	11.0701	Computer Science
1706	Mathematics and Math Education	27.0101	Mathematics, General
1740	Mathematics and Philosophy	27.0101	Mathematics, General
1737	Mathematics with a Minor in Biology	27.0101	Mathematics, General
0910	Mechanical Engineering	14.1901	Mechanical Engineering
0461	Medical Nutritional Sciences, Prgm in Cell&Molecular Biology	26.0406	Cell/Cellular and Molecular Biology (NEW)
0411	Microbiology	26.0503	Medical Microbiology and Bacteriology (NEW)
0453	Microbiology, Program in Cell & Molecular Biology	26.0406	Cell/Cellular and Molecular Biology (NEW)
1279	Microbiology, program in Immunology	26.0507	Immunology
0416	Molecular Biology	26.0204	Molecular Biology
0457	Molecular Medicine	26.0204	Molecular Biology
0462	Molecular Medicine, Program in Cell & Molecular Biology	26.0406	Cell/Cellular and Molecular Biology (NEW)
1904	Nuclear Physics	40.0806	Nuclear Physics
1919	Oceanography	40.0607	Oceanography, Chemical and Physical
1907	Organic Chemistry	40.0504	Organic Chemistry
1918	Paleontology	40.0604	Paleontology
0428	Parasitology	26.0505	Parasitology
0408	Pathology	26.0910	Pathology/Experimental Pathology (NEW)
0450	Pathology, Program in Cell & Molecular Biology	26.0406	Cell/Cellular and Molecular Biology (NEW)
1239	Pathology, program in Immunology	26.0910	Pathology/Experimental Pathology (NEW)
0409	Pharmacology	26.1001	Pharmacology
0451	Pharmacology, Program in Cell & Molecular Biology	26.0406	Cell/Cellular and Molecular Biology (NEW)
0929	Photonics	14.1001	Electrical, Electronics and Communications Engineering
1908	Physical Chemistry	40.0506	Physical and Theoretical Chemistry
1901	Physical Sciences	40.0101	Physical Sciences
1902	Physics	40.0801	Physics, General
1953	Physics with a Minor in Biology	40.0801	Physics, General
1952	Physics with a Minor in Chemistry	40.0801	Physics, General

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1951	Physics with a Minor in Engineering	40.0801	Physics, General
0410	Physiology	26.0901	Physiology, General (NEW)
0452	Physiology, Program in Cell & Molecular Biology	26.0406	Cell/Cellular and Molecular Biology (NEW)
1932	Planetary and Space Sciences	40.0603	Geophysics and Seismology
0406	Plant Physiology	26.0307	Plant Physiology
1970	Sea Semester	26.1302	Marine Biology and Biological Oceanography
2007	Statistics	27.0501	Statistics, General
0705	Systems Analysis	11.0501	Computer Systems Analysis/Analyst
0992	Systems Engineering	14.2701	Systems Engineering
0548	Telecommunication	11.0901	Computer Systems Networking and Telecommunications (NEW)
0407	Zoology, General	26.0701	Zoology/Animal Biology

<sup>1</sup> CIP = Classification of Instruction Programs published by the U.S. Department of Education's National Center for Education Statistics (<http://nces.ed.gov/pubs2002/cip2000/>)

To view full descriptions of all of the STEM designated CIP codes, go the NAFSA web site at:  
[http://www.nafsa.org/regulatory\\_information.sec/get\\_sevis\\_information/29\\_month\\_opt\\_rule\\_updates/dhs\\_stem\\_designated\\_degree](http://www.nafsa.org/regulatory_information.sec/get_sevis_information/29_month_opt_rule_updates/dhs_stem_designated_degree)