

**Revised
8/25/2006**

National SMART Grant -- Fields of Study

The Secretary has designated the following fields of study as eligible for the National SMART Grant Program to the extent that a student is enrolled in a bachelor's degree or a graduate degree program that includes at least 3 academic years of undergraduate education.

Computer science: The branch of knowledge or study of computers, including such fields of knowledge or study as computer hardware, computer software, computer engineering, information systems, and robotics.

Associated NCES CIP CODES: 11.xxxx

Engineering: The science by which the properties of matter and the sources of energy in nature are made useful to humanity in structures, machines, and products, as in the construction of engines, bridges, buildings, mines, and chemical plants, including such fields of knowledge or study as aeronautical engineering, chemical engineering, civil engineering, electrical engineering, industrial engineering, materials engineering, manufacturing engineering, and mechanical engineering.

Associated NCES CIP CODES: 14.xxxx

Foreign Language: Instructional programs that focus on foreign languages and literatures, the humanistic and scientific study of linguistics, and the provision of professional interpretation and translation services.

Associated NCES CIP CODES: 16.xxxx

Life sciences: The branch of knowledge or study of living things, including such fields of knowledge or study as biology, biochemistry, biophysics, microbiology, genetics, physiology, botany, zoology, ecology, and behavioral biology, except that the term does not encompass the health professions.

Associated NCES CIP CODES: 26.xxxx; 01.xxxx

Mathematics: The branch of knowledge or study of numbers and the systematic treatment of magnitude, relationships between figures and forms, and relations between quantities expressed symbolically, including such fields of knowledge or study as statistics, applied mathematics, and operations research.

Associated NCES CIP CODES: 27.xxxx

Physical sciences: The branch of knowledge or study of the material universe, including such fields of knowledge or study as astronomy, atmospheric sciences, chemistry, earth sciences, ocean sciences, physics, and planetary sciences.

Associated NCES CIP CODES: 40.xxxx

Technology: The application of mechanical or scientific knowledge, for example, applied science.

Related NCES CIP CODES: 41.xxxx; 29.xxxx 15.xxxx

Several Multidisciplinary Studies are also considered eligible for National SMART Grants.

Associated NCES CIP CODES: 30.xxxx

Computer Science

- 11.01 Computer and Information Sciences, General
 - 11.0101 Computer and Information Sciences, General
 - 11.0102 Artificial Intelligence and Robotics
 - 11.0103 Information Technology
 - 11.0199 Computer and Information Sciences, Other
- 11.02 Computer Programming
 - 11.0201 Computer Programming/Programmer, General
 - 11.0202 Computer Programming, Specific Applications
 - 11.0203 Computer Programming, Vendor/Product Certification
 - 11.0299 Computer Programming, Other
- 11.03 Data Processing
 - 11.0301 Data Processing and Data Processing Technology/Technician
- 11.04 Information Science/Studies
 - 11.0401 Information Science/Studies
- 11.05 Computer Systems Analysis
 - 11.0501 Computer Systems Analysis/Analyst
- 11.07 Computer Science
 - 11.0701 Computer Science
- 11.08 Computer Software and Media Applications
 - 11.0801 Web Page, Digital/Multimedia and Information Resources Design
 - 11.0802 Data Modeling/Warehousing and Database Administration
 - 11.0803 Computer Graphics
 - 11.0899 Computer Software and Media Applications, Other
- 11.09 Computer Systems Networking and Telecommunications
 - 11.0901 Computer Systems Networking and Telecommunications
- 11.10 Computer/Information Technology Administration and Management
 - 11.1001 System Administration/Administrator
 - 11.1002 System, Networking, and LAN/WAN Management/Manager
 - 11.1003 Computer and Information Systems Security
 - 11.1004 Web/Multimedia Management and Webmaster
 - 11.1099 Computer/Information Technology Services Administration and Management, Other
- 11.99 Computer and Information Sciences and Support Services, Other.
 - 11.9999 Computer and Information Sciences and Support Services, Other

Engineering

- 14.01 Engineering, General
 - 14.0101 Engineering, General
- 14.02 Aerospace, Aeronautical and Astronautical Engineering
 - 14.0201 Aerospace, Aeronautical and Astronautical Engineering
- 14.03 Agricultural/Biological Engineering and Bioengineering
 - 14.0301 Agricultural/Biological Engineering and Bioengineering
- 14.04 Architectural Engineering
 - 14.0401 Architectural Engineering
- 14.05 Biomedical/Medical Engineering
 - 14.0501 Biomedical/Medical Engineering
- 14.06 Ceramic Sciences and Engineering
 - 14.0601 Ceramic Sciences and Engineering
- 14.07 Chemical Engineering
 - 14.0701 Chemical Engineering
- 14.08 Civil Engineering
 - 14.0801 Civil Engineering, General
 - 14.0802 Geotechnical Engineering
 - 14.0803 Structural Engineering
 - 14.0804 Transportation and Highway Engineering
 - 14.0805 Water Resources Engineering
 - 14.0899 Civil Engineering, Other
- 14.09 Computer Engineering, General
 - 14.0901 Computer Engineering, General
 - 14.0902 Computer Hardware Engineering
 - 14.0903 Computer Software Engineering
 - 14.0999 Computer Engineering, Other
- 14.10 Electrical, Electronics and Communications Engineering
 - 14.1001 Electrical, Electronics and Communications Engineering
- 14.11 Engineering Mechanics
 - 14.1101 Engineering Mechanics
- 14.12 Engineering Physics
 - 14.1201 Engineering Physics
- 14.13 Engineering Science
 - 14.1301 Engineering Science
- 14.14 Environmental/Environmental Health Engineering
 - 14.1401 Environmental/Environmental Health Engineering
- 14.18 Materials Engineering
 - 14.1801 Materials Engineering
- 14.19 Mechanical Engineering
 - 14.1901 Mechanical Engineering
- 14.20 Metallurgical Engineering
 - 14.2001 Metallurgical Engineering
- 14.21 Mining and Mineral Engineering
 - 14.2101 Mining and Mineral Engineering
- 14.22 Naval Architecture and Marine Engineering
 - 14.2201 Naval Architecture and Marine Engineering
- 14.23 Nuclear Engineering
 - 14.2301 Nuclear Engineering

- 14.24 Ocean Engineering
 - 14.2401 Ocean Engineering
- 14.25 Petroleum Engineering
 - 14.2501 Petroleum Engineering
- 14.27 Systems Engineering
 - 14.2701 Systems Engineering
- 14.28 Textile Sciences and Engineering
 - 14.2801 Textile Sciences and Engineering
- 14.31 Materials Science
 - 14.3101 Materials Science
- 14.32 Polymer/Plastics Engineering
 - 14.3201 Polymer/Plastics Engineering
- 14.33 Construction Engineering
 - 14.3301 Construction Engineering
- 14.34 Forest Engineering
 - 14.3401 Forest Engineering
- 14.35 Industrial Engineering
 - 14.3501 Industrial Engineering
- 14.36 Manufacturing Engineering
 - 14.3601 Manufacturing Engineering
- 14.37 Operations Research
 - 14.3701 Operations Research
- 14.38 Surveying Engineering
 - 14.3801 Surveying Engineering
- 14.39 Geological/Geophysical Engineering
 - 14.3901 Geological/Geophysical Engineering
- 14.99 Engineering, Other
 - 14.9999 Engineering, Other

Critical Foreign Language

16.0201	African Languages, Literatures, and Linguistics
16.0301	Chinese Language and Literature
16.0302	Japanese Language and Literature
16.0303	Korean Language and Literature
16.0402	Russian Language and Literature
16.0701	Hindi Language and Literature
16.0704	Bengali Language and Literature
16.0705	Panjabi Language and Literature
16.0707	Urdu Language and Literature
16.0801	Iranian/Persian Languages, Literatures, and Linguistics
16.0904	Portuguese Language and Literature
16.1101	Arabic Language and Literature
16.1102	Hebrew Language and Literature
16.1402	Bahasa Indonesian/Bahasa Malay Languages and Literatures
16.1404	Filipino/Tagalog Language and Literature
16.1501	Turkish Language and Literature
16.1599	Turkic, Ural-Altaic, Caucasian, and Central Asian Languages, Literatures, and Linguistics, Other

Life Sciences

26. BIOLOGICAL AND BIOMEDICAL SCIENCES

26.01 Biology, General

- 26.0101 Biology/Biological Sciences, General
- 26.0102 Biomedical Sciences, General

26.02 Biochemistry, Biophysics and Molecular Biology

- 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/Biophysics and Molecular Biology
- 26.0299 Biochemistry, Biophysics and Molecular Biology, Other

26.03 Botany/Plant Biology

- 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

26.04 Cell/Cellular Biology and Anatomical Sciences

- 26.0401 Cell/Cellular Biology and Histology
- 26.0403 Anatomy
- 26.0404 Developmental Biology and Embryology
- 26.0405 Neuroanatomy
- 26.0406 Cell/Cellular and Molecular Biology
- 26.0407 Cell Biology and Anatomy
- 26.0499 Cell/Cellular Biology and Anatomical Sciences, Other

26.05 Microbiological Sciences and Immunology

- 26.0502 Microbiology, General
- 26.0503 Medical Microbiology and Bacteriology
- 26.0504 Virology
- 26.0505 Parasitology
- 26.0506 Mycology
- 26.0507 Immunology
- 26.0599 Microbiological Sciences and Immunology, Other

26.07 Zoology/Animal Biology

- 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

26.08 Genetics

- 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
- 26.0899 Genetics, Other
- 26.09 Physiology, Pathology and Related Sciences
 - 26.0901 Physiology, General
 - 26.0902 Molecular Physiology
 - 26.0903 Cell Physiology
 - 26.0904 Endocrinology
 - 26.0905 Reproductive Biology
 - 26.0906 Neurobiology and Neurophysiology
 - 26.0907 Cardiovascular Science
 - 26.0908 *Exercise Physiology* 8/25/2006**
 - 26.0909 Vision Science/Physiological Optics
 - 26.0910 Pathology/Experimental Pathology
 - 26.0911 Oncology and Cancer Biology
 - 26.0999 Physiology, Pathology, and Related Sciences, Other
- 26.10 Pharmacology and Toxicology
 - 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
- 26.11 Biomathematics and Bioinformatics
 - 26.1101 Biometry/Biometrics
 - 26.1102 Biostatistics
 - 26.1103 Bioinformatics
 - 26.1199 Biomathematics and Bioinformatics, Other
- 26.12 Biotechnology
 - 26.1201 Biotechnology
- 26.13 Ecology, Evolution, Systematics and Population Biology
 - 26.1301 Ecology
 - 26.1302 Marine Biology and Biological Oceanography
 - 26.1303 *Evolutionary Biology* 8/25/2006**
 - 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
 - 26.1399 Ecology, Evolution, Systematics and Population Biology, Other
- 26.99 Biological and Biomedical Sciences, Other
 - 26.9999 Biological and Biomedical Sciences, Other

01. AGRICULTURE, AGRICULTURE OPERATIONS, AND RELATED SCIENCES

01.09 Animal Sciences

- 01.0901 Animal Sciences, General
- 01.0902 Agricultural Animal Breeding

- 01.0903 Animal Health
- 01.0904 Animal Nutrition
- 01.0905 Dairy Science
- 01.0906 Livestock Management
- 01.0907 Poultry Science
- 01.0999 Animal Sciences, Other
- 01.11 Plant Sciences
 - 01.1101 Plant Sciences, General
 - 01.1102 Agronomy and Crop Science
 - 01.1103 Horticultural Science
 - 01.1104 Agricultural and Horticultural Plant Breeding
 - 01.1105 Plant Protection and Integrated Pest Management
 - 01.1106 Range Science and Management
 - 01.1199 Plant Sciences, Other
- 01.12 Soil Sciences
 - 01.1201 Soil Science and Agronomy, General
 - 01.1202 Soil Chemistry and Physics
 - 01.1203 Soil Microbiology
 - 01.1299 Soil Sciences, Other

Mathematics

27.01 Mathematics

- 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

27.03 Applied Mathematics

- 27.0301 Applied Mathematics
- 27.0303 Computational Mathematics
- 27.0399 Applied Mathematics, Other

27.05 Statistics

- 27.0501 Statistics, General
- 27.0502 Mathematical Statistics and Probability
- 27.0599 Statistics, Other

27.99 Mathematics and Statistics, Other

- 27.9999 Mathematics and Statistics, Other

Physical Sciences

- 40.01 Physical Sciences
 - 40.0101 Physical Sciences
- 40.02 Astronomy and Astrophysics
 - 40.0201 Astronomy
 - 40.0202 Astrophysics
 - 40.0203 Planetary Astronomy and Science
 - 40.0299 Astronomy and Astrophysics, Other
- 40.04 Atmospheric Sciences and Meteorology
 - 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
- 40.05 Chemistry
 - 40.0501 Chemistry, General
 - 40.0502 Analytical Chemistry
 - 40.0503 Inorganic Chemistry
 - 40.0504 Organic Chemistry
 - 40.0506 Physical and Theoretical Chemistry
 - 40.0507 Polymer Chemistry
 - 40.0508 Chemical Physics
 - 40.0599 Chemistry, Other
- 40.06 Geological and Earth Sciences/Geosciences
 - 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
- 40.08 Physics
 - 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 Solid State and Low-Temperature Physics
 - 40.0809 Acoustics
 - 40.0810 Theoretical and Mathematical Physics
 - 40.0899 Physics, Other
- 40.99 Physical Sciences, Other
 - 40.9999 Physical Sciences, Other

Technology

15. ENGINEERING TECHNOLOGIES/TECHNICIANS

15.00 Engineering Technology, General

15.0000 Engineering Technology, General

15.01 Architectural Engineering Technologies/Technicians

15.0101 Architectural Engineering Technology/Technician

15.02 Civil Engineering Technologies/Technicians

15.0201 Civil Engineering Technology/Technician

15.03 Electrical Engineering Technologies/Technicians

15.0303 Electrical, Electronic and Communications Engineering
Technology/Technician

15.0304 Laser and Optical Technology/Technician

15.0305 Telecommunications Technology/Technician

15.0399 Electrical and Electronic Engineering Technologies/Technicians,
Other

15.04 Electromechanical Instrumentation and Maintenance Technologies/Technicians

15.0401 Biomedical Technology/Technician

15.0403 Electromechanical Technology/Electromechanical Engineering
Technology

15.0404 Instrumentation Technology/Technician

15.0405 Robotics Technology/Technician

15.0499 Electromechanical and Instrumentation and Maintenance
Technologies/Technicians, Other

15.05 Environmental Control Technologies/Technicians

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

15.06 Industrial Production Technologies/Technicians

15.0607 Plastics Engineering Technology/Technician

15.0611 Metallurgical Technology/Technician

15.0612 Industrial Technology/Technician

15.0613 Manufacturing Technology/Technician

15.0699 Industrial Production Technologies/Technicians, Other

15.07 Quality Control and Safety Technologies/Technicians

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

15.08 Mechanical Engineering Related Technologies/Technicians

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

- 15.09 Mining and Petroleum Technologies/Technicians
 - 15.0901 Mining Technology/Technician
 - 15.0903 Petroleum Technology/Technician
 - 15.0999 Mining and Petroleum Technologies/Technicians, Other
- 15.10 Construction Engineering Technologies
 - 15.1001 Construction Engineering Technology/Technician
- 15.11 Engineering-Related Technologies
 - 15.1102 Surveying Technology/Surveying
 - 15.1103 Hydraulics and Fluid Power Technology/Technician
 - 15.1199 Engineering-Related Technologies, Other
- 15.12 Computer Engineering Technologies/Technicians
 - 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
- 15.13 Drafting/Design Engineering Technologies/Technicians
 - 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
- 15.14 Nuclear Engineering Technologies/Technicians
 - 15.1401 Nuclear Engineering Technology/Technician
- 15.15 Engineering-Related Fields
 - 15.1501 Engineering/Industrial Management
- 15.99 Engineering Technologies/Technicians, Other
 - 15.9999 Engineering Technologies/Technicians, Other

29. MILITARY TECHNOLOGIES

- 29.01 Military Technologies
 - 29.0101 Military Technologies

41. SCIENCE TECHNOLOGIES/TECHNICIANS

- 41.01 Biology Technician/Biotechnology Laboratory Technician
 - 41.0101 Biology Technician/Biotechnology Laboratory Technician
- 41.02 Nuclear and Industrial Radiologic Technologies/Technicians
 - 41.0204 Industrial Radiologic Technology/Technician
 - 41.0205 Nuclear/Nuclear Power Technology/Technician
 - 41.0299 Nuclear and Industrial Radiologic Technologies/Technicians, Other
- 41.03 Physical Science Technologies/Technicians
 - 41.0301 Chemical Technology/Technician
 - 41.0399 Physical Science Technologies/Technicians, Other
- 41.99 Science Technologies/Technicians, Other
 - 41.9999 Science Technologies/Technicians, Other

Multidisciplinary Studies

- 30. MULTI/INTERDISCIPLINARY STUDIES
- 30.01 Biological and Physical Sciences
 - 30.0101 Biological and Physical Sciences
- 30.06 Systems Science and Theory
 - 30.0601 Systems Science and Theory
- 30.08 Mathematics and Computer Science
 - 30.0801 Mathematics and Computer Science
 - 30.1501 Science, Technology and Society
- 30.16 Accounting and Computer Science
 - 30.1601 Accounting and Computer Science
- 30.18 Natural Sciences
 - 30.1801 Natural Sciences
- 30.24 Neuroscience
 - 30.2401 Neuroscience
- 30.25 Cognitive Science
 - 30.2501 Cognitive Science