
Rigorous Secondary School Programs of Study, and Eligible Majors



This section provides the Rigorous Secondary School Programs of Study for the Academic Competitiveness Grant (ACG) and the Eligible Majors (Program CIP Codes) for the National SMART Grant.

Additional information on these programs can be found on the Office of Postsecondary Education website at <http://www.ed.gov/about/offices/list/ope/ac-smart.html>.

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Academic Competitiveness Grant (ACG)

To be eligible for an ACG, a student must meet the criteria outlined in DCL GEN-06-08, GEN 08-08, and in the regulations.

- Student may not receive ACG concurrently from more than one school.

First-year students

First-year students must also fulfill the following requirements in order to receive an ACG award:

- May not have been previously enrolled in a program of undergraduate education.
- Have completed secondary school program of study after January 1, 2006.

Second-year students

Second-year students must also fulfill the following requirements in order to receive an ACG award:

- Have completed secondary school program of study after January 1, 2005.
- Have at least a 3.0 Grade Point Average (G.P.A.)
- Students must have completed a rigorous secondary school program of study.

A first-year student is a student with a Grade Level equal to 0 or 1.

A second-year student is a student with a Grade Level equal to 2.

Options for Meeting Rigorous Program Definition

Eligibility/Payment Reason Code	Reason Description
01	State Designated Program <ul style="list-style-type: none"> • State Submitted Program • An advanced or honors secondary school program established by a state and in existence for the 04-05 or 05-06 school year • State Scholars Initiative
02	Completion of at least two Advanced Placement courses with passing test score of 3 or two International Baccalaureate courses with passing test score of 4.
03	The student has completed a high school course of study with at least: <ul style="list-style-type: none"> • Four years of high school English; • Three years of high school math, including Algebra I and another higher level math course; • Three years of science, including one year each of at least two of the following courses: biology, chemistry, and physics; • Three years of high school social studies; and • One year of high school language other than English

Eligibility/Payment Reason Codes

Schools must submit to COD the appropriate Eligibility/Payment Reason Code for each ACG award. Valid values are:

01 = Rigorous High School Program

02 = Advanced Placement/International Baccalaureate Coursework

03 = Coursework

When the Eligibility/Payment Reason Code = 01, a school must also submit to COD the appropriate Rigorous High School Program Code. This code is a 6-position alpha-numerical string. This section provides the listing of Rigorous High School Program Codes by state.

Rigorous Secondary (High) School Programs of Study

Program Name	Code
Alabama	
Alabama Advanced Academic Endorsement	AL0001
High Schools That Work Award of Educational Achievement	AL0002
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Alaska	
Department of Defense Education Activity (DoDEA) Requirements	DD0001
American Samoa	
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Arizona	
Arizona Dual Credit Coursework Program	AZ0001
Arizona Academic Scholars	AZ6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Arkansas	
Arkansas Academic Challenge Core Curriculum	AR0001
Arkansas Coursework Option	AR0002
Arkansas Scholars	AR6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
California	
California Golden State Seal Merit Diploma	CA0001
California A-G Requirements	CA0002
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Colorado	
Colorado Higher Education Admission Requirements (HEAR)	CO0001
Colorado State Scholars Initiative	CO6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Connecticut	
Connecticut Technical High School System Program	CT0001
Connecticut Dual Enrollment Program	CT0002
Connecticut State Scholars	CT6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Delaware	
Delaware Distinguished Achievement Diploma	DE0001
High Schools That Work Award of Educational Achievement	DE0002
Delaware Coursework Requirements	DE0003
Department of Defense Education Activity (DoDEA) Requirements	DD0001
District of Columbia	
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Florida	
Florida Bright Futures Program	FL0001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Georgia	
Georgia College Preparatory with Distinction Diploma	GA0001
Department of Defense Education Activity (DoDEA) Requirements	DD0001

Program Name	Code
Guam	
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Hawaii	
High Schools That Work Award of Educational Achievement	HI0001
Hawaii B Plus Scholarship Program	HI0002
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Idaho	
Idaho College Admission Core	ID0001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Illinois	
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Indiana	
Indiana Academic Honors Diploma	IN0001
Indiana Core 40	IN0002
Indiana State Scholars Initiative	IN6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Iowa	
Iowa Coursework Requirements	IA0001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Kansas	
Kansas Scholars Curriculum	KS0001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Kentucky	
Kentucky Commonwealth Diploma	KY0001
Kentucky PreCollege Curriculum	KY0002
High Schools That Work Award of Educational Achievement	KY0003
Kentucky Scholars	KY6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Louisiana	
Louisiana Academic Endorsement to the Standard Diploma	LA0001
Louisiana's TOPS/Regents High School Core Curriculum	LA0002
Standard Diploma with Career and Technical Endorsements, for those students who have completed the TOPS/Regents High School Core Curriculum	LA0003
Louisiana State Scholars	LA6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Maine	
Maine Course Work Program Number One	ME0001
Maine Course Work Program Number Two	ME0002
Maine Advanced Placement Program	ME0003
Maine Dual Enrollment Program	ME0004
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Maryland	
Maryland Scholars	MD6001

Program Name	Code
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Massachusetts	
The Koplik Certificate of Mastery with Distinction	MA0001
Massachusetts Board of Higher Education Admissions Criteria	MA0002
Massachusetts Scholars	MA6001
MassCore	MA0003
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Michigan	
Michigan Merit Standard	MI0001
Michigan Scholars	MI6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Minnesota	
Minnesota Coursework Requirements	MN0001
Minnesota Dual Credit Program	MN0002
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Mississippi	
Mississippi Dual Enrollment Program of Study	MS0001
Mississippi Scholars	MS6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Missouri	
Missouri College Preparatory Studies Certificate	MO0001
Missouri High School Core Curriculum Requirements	MO0002
Missouri Show-Me Scholars	MO6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Montana	
Montana Rigorous Core	MT0001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Nebraska	
Nebraska Scholars	NE6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Nevada	
Nevada Advanced Diploma	NV0001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
New Hampshire	
New Hampshire Dual Enrollment Program	NH0001
New Hampshire Granite State Scholars	NH6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
New Jersey	
NJ Stars Program	NJ0001
State Scholars NJ	NJ6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
New Mexico	

Program Name	Code
New Mexico Scholars	NM6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
New York	
New York Regents Diploma with Honors or Advanced Designation	NY0001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
North Carolina	
North Carolina College/University Preparation Course of Study	NC0001
North Carolina State Scholars Initiative	NC6001
NC Academic Scholars Program	NC0002
Department of Defense Education Activity (DoDEA) Requirements	DD0001
North Dakota	
North Dakota Admission Standards to Baccalaureate and Graduate Institutions	ND0001
North Dakota Dual Enrollment Program	ND0002
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Ohio	
Ohio Honors Diploma	OH0001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Oklahoma	
Oklahoma Certificate of Distinction	OK0001
High Schools That Work Award of Educational Achievement	OK0002
Oklahoma Higher Learning Access Program (OHLAP)	OK0003
Oklahoma Scholars	OK6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Oregon	
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Pennsylvania	
Pennsylvania Certificate of Distinction	PA0001
High Schools That Work Award of Educational Achievement	PA0002
Project 720 College and Career Prep Course Sequence	PA0003
Pennsylvania Dual Enrollment Program	PA0004
Pennsylvania Admission to State Institutions of Higher Education	PA0005
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Puerto Rico	
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Rhode Island	
Rhode Island Scholars	RI6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
South Carolina	
High Schools That Work Award of Educational Achievement	SC0001
South Carolina Academic Achievement Honors Award	SC0002
College Preparatory Course Prerequisite Requirements	SC0003

Program Name	Code
South Carolina Dual Enrollment Program	SC0004
Department of Defense Education Activity (DoDEA) Requirements	DD0001
South Dakota	
South Dakota Scholars Initiative	SD6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Tennessee	
Tennessee University Path Curriculum	TN0001
Tennessee Dual Enrollment Program	TN0002
Tennessee Scholars	TN6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Texas	
Texas Distinguished Achievement Diploma	TX0001
Texas Recommended High School Program	TX0002
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Utah	
Utah Concurrent Enrollment Program	UT0001
Utah Scholars	UT6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Vermont	
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Virginia	
Virginia Advanced Studies Diploma	VA0001
Virginia Coursework Requirements	VA0002
Virginia Commonwealth Scholars	VA6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Virgin Islands	
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Washington	
Washington Scholar Designation	WA0001
Washington Coursework Requirements	WA0002
Washington Opportunity Scholars Initiative	WA6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
West Virginia	
High Schools That Work Award of Educational Achievement	WV0001
West Virginia PROMISE	WV0002
West Virginia Earn a Degree-Graduate Early (EDGE)	WV0003
West Virginia Dual Credit Program	WV0004
West Virginia Scholars	WV6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Wisconsin	
Wisconsin Coursework Requirements	WI0001
Wisconsin Dual Enrollment Program	WI0002
Department of Defense Education Activity (DoDEA) Requirements	DD0001
Wyoming	

Program Name	Code
Wyoming Advanced Endorsement Diploma	WY0001
Assured Admission to the University of Wyoming	WY0002
Wyoming State Scholars Initiative	WY6001
Department of Defense Education Activity (DoDEA) Requirements	DD0001

National Science and Mathematics Access to Retain Talent (SMART) Grant

Eligible Majors (Program CIP Code)

To be eligible for a National SMART Grant, a student must meet the criteria outlined in DCL GEN-06-08, GEN 08-08, and in the regulations.

- Student may not receive a National SMART Grant concurrently from more than one school.
- Have at least a 3.0 Grade Point Average (G.P.A)
- Limited to 3rd, 4th, and 5th year students
- Eligible majors identified annually in Physical science, Life science, Computer Science, Engineering, Mathematics, Technology, and Critical foreign language.

Eligible Majors

See GEN-07-06 published September 24, 2007 for a complete list of eligible majors.

A school must submit to COD the appropriate NCES CIP code for a National SMART Grant award. This code is 7 positions including a decimal (numerical string). These codes are also listed in the attachment to GEN-07-06 published September 24, 2007.

Computer Science

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.

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

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.

- 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

Foreign Language

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.

- 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

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.

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
 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
 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
- 01.10 Food Science and Technology**
- 01.1001 Food Science
- 01.1002 Food Technology and Processing
- 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

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.

- 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

Natural Resources and Conservation

Natural Resources and Conservation: Instructional programs that focus on the various natural resources and conservation fields and prepare individuals for related occupations.

- 03. Natural Resources and Conservation**
- 03.01 Natural Resources and Conservation and Research**
- 03.0104 Environmental Science

03.03 Fishing and Fisheries Sciences and Management

03.0301 Fishing and Fisheries Sciences and Management

03.05 Forestry

03.0502 Forest Sciences and Biology

03.0509 Wood Science and Wood Products/Pulp and Paper Technology

03.06 Wildlife and Wildlands Science and Management

03.0601 Wildlife and Wildlands Science and Management

Physical Sciences

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.

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

Psychology

Psychology: Instructional programs that focus on the scientific study of the behavior of individuals, independently or collectively, and the physical and environmental bases of mental, emotional, and neurological activity.

42. Psychology

- 42.11 Physiological Psychology/Psychobiology**
- 42.1101 Physiological Psychology/Psychobiology

Technology

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

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.	<i>MILITARY TECHNOLOGIES</i>
29.01	Military Technologies
29.0101	Military Technologies
41.	<i>SCIENCE TECHNOLOGIES/TECHNICIANS</i>
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

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

30.	<i>MULTI/INTERDISCIPLINARY STUDIES</i>
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
30.10	Biopsychology
30.1001	Biopsychology
30.15	Science, Technology and Society
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
- 30.19** **Nutritional Sciences**
- 30.1901 Nutritional Sciences
- 30.24** **Neuroscience**
- 30.2401 Neuroscience
- 30.25** **Cognitive Science**
- 30.2501 Cognitive Science