
Rigorous Secondary School Programs of Study, and Eligible Majors

VOLUME VI
SECTION

9

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-10-04, 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-10-12 published June 18th, 2010 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-10-12 published June 18, 2010.

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
- 11.0103 Information Technology
- 11.0104 Informatics
- 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
- 11.0804 Modeling, Virtual Environments and Simulation
- 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 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
- 11.1006 Computer Support Specialist
- 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 Engineering**
- 14.0301 Agricultural Engineering
- 14.04 Architectural Engineering**
- 14.0401 Architectural Engineering
- 14.05 Biomedical/Medical Engineering**
- 14.0501 Bioengineering and Biomedical Engineering
- 14.06 Ceramic Sciences and Engineering**
- 14.0601 Ceramic Sciences and Engineering
- 14.07 Chemical Engineering**
- 14.0701 Chemical Engineering
- 14.0702 Chemical and Biomolecular Engineering
- 14.0799 Chemical Engineering, Other

14.08	Civil Engineering
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
14.09	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 and Electronics Engineering
14.1003	Laser and Optical Engineering
14.1004	Telecommunications Engineering
14.1099	Electrical, Electronics and Communications Engineering, Other
14.11	Engineering Mechanics
14.1101	Engineering Mechanics
14.12	Engineering Physics
14.1201	Engineering Physics/Applied 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
14.32	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
14.40	Paper Science and Engineering
14.4001	Paper Science and Engineering
14.41	Electomechanical Engineering
14.4101	Electomechanical Engineering
14.42	Mechatronics, Robotics, and Automation Engineering
14.4201	Mechatronics, Robotics, and Automation Engineering
14.43	Biochemical Engineering
14.4301	Biochemical Engineering
14.44	Engineering Chemistry
14.4401	Engineering Chemistry
14.45	Biological/Biosystems Engineering
14.4501	Biological/Biosystems Engineering
14.99	Engineering, Other
14.9999	Engineering, Other

Critical Foreign Language

Critical 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.

16.02	African Languages, Literatures, and Linguistics
16.0201	African Languages, Literatures, and Linguistics
16.03	East Asian Languages, Literatures, and Linguistics
16.0300	East Asian Languages, Literatures, and Linguistics, General
16.0301	Chinese Language and Literature
16.0302	Japanese Language and Literature
16.0303	Korean Language and Literature
16.0304	Tibetan Language and Literature
16.0399	East Asian Languages, Literatures, and Linguistics, Other

- 16.04 Slavic, Baltic and Albanian Languages, Literatures, and Linguistics**
 - 16.0400 Slavic Languages, Literatures, and Linguistics, General
 - 16.0401 Baltic Languages, Literatures, and Linguistics
 - 16.0402 Russian Language and Literature
 - 16.0404 Albanian Language and Literature
 - 16.0405 Bulgarian Language and Literature
 - 16.0406 Czech Language and Literature
 - 16.0407 Polish Language and Literature
 - 16.0408 Bosnian, Serbian, and Croatian Languages and Literatures
 - 16.0409 Slovak Language and Literature
 - 16.0410 Ukrainian Language and Literature
 - 16.0499 Slavic, Baltic, and Albanian Languages, Literatures, and Linguistics, Other
- 16.05 Germanic Languages, Literatures, and Linguistics**
 - 16.0500 Germanic Languages, Literatures, and Linguistics, General
 - 16.0501 German Language and Literature
 - 16.0502 Scandinavian Languages, Literatures, and Linguistics
 - 16.0503 Danish Language and Literature
 - 16.0504 Dutch/Flemish Language and Literature
 - 16.0505 Norwegian Language and Literature
 - 16.0506 Swedish Language and Literature
 - 16.0599 Germanic Languages, Literatures, and Linguistics, Other
- 16.06 Modern Greek Language and Literature**
 - 16.0601 Modern Greek Language and Literature
- 16.07 South Asian Languages, Literatures, and Linguistics**
 - 16.0700 South Asian Languages, Literatures, and Linguistics, General
 - 16.0701 Hindi Language and Literature
 - 16.0702 Sanskrit and Classical Indian Languages, Literatures, and Linguistics
 - 16.0704 Bengali Language and Literature
 - 16.0705 Panjabi Language and Literature
 - 16.0706 Tamil Language and Literature
 - 16.0707 Urdu Language and Literature
 - 16.0799 South Asian Languages, Literatures, and Linguistics, Other
- 16.08 Iranian/Persian Languages, Literatures, and Linguistics**
 - 16.0801 Iranian Languages, Literatures, and Linguistics
- 16.09 Romance Languages, Literatures, and Linguistics**
 - 16.0900 Romance Languages, Literatures, and Linguistics, General
 - 16.0901 French Language and Literature
 - 16.0902 Italian Language and Literature
 - 16.0904 Portuguese Language and Literature
 - 16.0905 Spanish Language and Literature
 - 16.0906 Romanian Language and Literature
 - 16.0907 Catalan Language and Literature
 - 16.0908 Hispanic and Latin American Languages, Literatures, and Linguistics, General
 - 16.0999 Romance Languages, Literatures, and Linguistics, Other

- 16.10 American Indian/Native American Languages, Literatures, and Linguistics**
- 16.1001 American Indian/Native American Languages, Literatures, and Linguistics
- 16.11 Middle/Near Eastern and Semitic Languages, Literatures, and Linguistics**
- 16.1100 Middle/Near Eastern and Semitic Languages, Literatures, and Linguistics, General
- 16.1101 Arabic Language and Literature
- 16.1102 Hebrew Language and Literature
- 16.1103 Ancient Near Eastern and Biblical Languages, Literatures, and Linguistics
- 16.1199 Middle/Near Eastern and Semitic Languages, Literatures, and Linguistics, Other
- 16.12 Classics and Classical Languages, Literatures, and Linguistics**
- 16.1200 Classics and Classical Languages, Literatures, and Linguistics, General
- 16.1202 Ancient/Classical Greek Language and Literature
- 16.1203 Latin Language and Literature
- 16.1299 Classics and Classical Languages, Literatures, and Linguistics, Other
- 16.13 Celtic Languages, Literatures, and Linguistics**
- 16.1301 Celtic Languages, Literatures, and Linguistics
- 16.14 Southeast Asian and Australasian/Pacific Languages, Literatures, and Linguistics**
- 16.1400 Southeast Asian Languages, Literatures, and Linguistics, General
- 16.1401 Australian/Oceanic/Pacific Languages, Literatures, and Linguistics
- 16.1402 Bahasa Indonesian/Bahasa Malay Languages and Literatures
- 16.1403 Burmese Language and Literature
- 16.1404 Filipino/Tagalog Language and Literature
- 16.1405 Khmer/Cambodian Language and Literature
- 16.1406 Lao Language and Literature
- 16.1407 Thai Language and Literature
- 16.1408 Vietnamese Language and Literature
- 16.1499 Southeast Asian and Australasian/Pacific Languages, Literatures, and Linguistics, Other
- 16.15 Turkic, Uralic-Altaic, Caucasian, and Central Asian Languages, Literatures, and Linguistics**
- 16.1501 Turkish Language and Literature
- 16.1502 Uralic Languages, Literatures, and Linguistics
- 16.1503 Hungarian/Magyar Language and Literature
- 16.1504 Mongolian Language and Literature
- 16.1599 Turkic, Ural-Altaic, Caucasian, and Central Asian Languages, Literatures, and Linguistics, Other
- 16.99 Foreign Languages, Literatures, and Linguistics, Other**
- 16.9999 Foreign 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 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

26.0406 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

26.0508 Microbiology and 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
- 26.0807 Genome Sciences/Genomics
- 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
- 26.0907 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

26.10 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, Bioinformatics, and Computational Biology

- 26.1101 Biometry/Biometrics
- 26.1102 Biostatistics
- 26.1103 Bioinformatics
- 26.1104 Computational Biology
- 26.1199 Biomathematics, Bioinformatics, and Computational Biology, 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
- 26.1310 Ecology and Evolutionary Biology
- 26.1399 Ecology, Evolution, Systematics and Population Biology, Other

26.14 Molecular Medicine

- 26.1401 Molecular Medicine

26.15 Neurobiology and Neurosciences

- 26.1501 Neuroscience
- 26.1502 Neuroanatomy
- 26.1503 Neurobiology and Neurophysiology
- 26.1504 Neurobiology and Behavior
- 26.1599 Neurobiology and Neurosciences, 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
- 27.0304 Computational and Applied Mathematics
- 27.0305 Financial Mathematics
- 27.0306 Mathematical Biology
- 27.0399 Applied Mathematics, Other

27.05 Statistics

- 27.0501 Statistics, General
- 27.0502 Mathematical Statistics and Probability
- 27.0503 Mathematics and Statistics
- 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, Fish 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
- 40.0509 Environmental Chemistry
- 40.0510 Forensic Chemistry
- 40.0511 Theoretical Chemistry
- 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
- 40.10 Materials Sciences**
- 40.1001 Materials Science
- 40.1002 Materials Chemistry
- 40.1099 Materials Sciences, 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

42.27 Research and Experimental Psychology

42.2706 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

15.0306 Integrated Circuit Design

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

15.0406 Automation Engineer 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 and Polymer Engineering Technology/Technician

15.0611 Metallurgical Technology/Technician

15.0612	Industrial Technology/Technician
15.0613	Manufacturing 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
15.07	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
15.1502	Engineering Design

- 15.1503 Packaging Science
 15.1599 Engineering-Related Fields, Other
- 15.16 Nanotechnology**
- 15.1601 Nanotechnology
- 15.99 Engineering Technologies/Technicians, Other**
- 15.9999 Engineering Technologies and Engineering-Related Fields, Other
- 29. MILITARY TECHNOLOGIES AND APPLIED SCIENCES**
- 29.02 Intelligence, Command Control and Information Operations**
- 29.0203 Signal/Geospatial Intelligence
 29.0204 Command and Control (C3,C4I) Systems and Operations
 29.0205 Information Operations/Joint Information Operations
 29.0207 Cyber/Electronic Operations and Warfare
- 29.03 Military Applied Sciences**
- 29.0301 Combat Systems Engineering
 29.0302 Directed Energy Systems
 29.0303 Engineering Acoustics
 29.0304 Low-Observables and Stealth Technology
 29.0305 Space System Operations
 29.0306 Operational Oceanography
 29.0307 Undersea Warfare
 29.0399 Military Applied Sciences, Other
- 29.04 Military Systems and Maintenance Technology**
- 29.0401 Aerospace Ground Equipment Technology
 29.0402 Air and Space Operations Technology
 29.0403 Aircraft Armament Systems Technology
 29.0404 Explosive Ordnance/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/Ordnance Technology
 29.0409 Radar Communications and Systems Technology
 29.0499 Military Systems and Maintenance Technology, Other
- 29.99 Military Technologies and Applied Sciences, Other**
- 29.9999 Military Technologies and Applied Sciences, Other
- 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

- 41.0303 Chemical Process Technology
- 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. 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

30.10 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

30.25 Cognitive Science

30.2501 Cognitive Science

30.30 Computational Science

30.3001 Computational Science

30.31 Human Computer Interaction

30.3101 Human Computer Interaction

30.32 Marine Sciences

30.3201 Marine Sciences