EXAMPLES OF DISCIPLINES

A. Computer and Information Sciences
   • Artificial Intelligence
   • Computer and Information Technology Administration and Management
   • Computer Science
   • Computer Software and Media Applications
   • Computer Systems Analysis
   • Computer Systems networking and Telecommunications
   • Data Processing
   • Information Sciences, studies
   • Information Technology

B. Engineering
   1. Aerospace, Aeronautical, and Astronautical Engineering
      • Aerodynamics
      • Aerospace Engineering
      • Space Technology
   2. Bioengineering and Biomedical Engineering
      • Biological and Biosystems Engineering
      • Biomaterials Engineering
      • Biomedical Technology
      • Medical Engineering
   3. Chemical Engineering
      • Biochemical Engineering
      • Chemical and Biomolecular Engineering
      • Engineering Chemistry
      • Paper Science
      • Petroleum Refining Process
      • Polymer, Plastics Engineering
   4. Civil Engineering
      • Architectural Engineering
      • Construction Engineering
      • Engineering Management, Administration
      • Environmental, Environmental Health Engineering
      • Geotechnical and Geoenvironmental Engineering
      • Sanitary Engineering
      • Structural Engineering
      • Surveying Engineering
      • Transportation and Highway Engineering
      • Water Resources Engineering
   5. Electrical, Electronic, and Communications Engineering
      • Communications Engineering
      • Computer Engineering
      • Computer Hardware Engineering
      • Computer Software Engineering
      • Electrical and Electronics Engineering
      • Laser and Optical Engineering
      • Power
      • Telecommunications Engineering
   6. Industrial and Manufacturing Engineering
      • Industrial Engineering
      • Manufacturing Engineering
      • Operations Research
      • Systems Engineering
   7. Mechanical Engineering
      • Electromechanical Engineering
      • Mechatronics, Robotics, and Automation Engineering
   8. Metallurgical and Materials Engineering
      • Ceramic Sciences and Engineering
      • Geophysical, Geological Engineering
      • Materials Engineering
      • Metallurgical Engineering
      • Mining and Mineral Engineering
      • Textile Sciences and Engineering
      • Welding
   9. Other Engineering
      • Agricultural Engineering
      • Engineering Design
      • Engineering Mechanics, Physics, and Science
      • Forest Engineering
      • Nanotechnology
      • Naval Architecture and Marine Engineering
      • Nuclear Engineering
      • Ocean Engineering
      • Petroleum Engineering
      • Other Engineering fields that cannot be classified using the fields listed above

C. Geosciences, Atmospheric, and Ocean Sciences
   1. Atmospheric Science and Meteorology
      • Aeronomy
      • Atmospheric Chemistry and Climatology
      • Atmospheric Physics and Dynamics
      • Extraterrestrial Atmospheres
      • Meteorology
      • Solar
      • Weather Modification
   2. Geological and Earth Sciences
      • Earth and Planetary Sciences
      • Geochemistry
      • Geodesy and Gravity
      • Geology
EXAMPLES OF DISCIPLINES

- Geomagnetism
- Geophysics and Seismology
- Hydrology and Water Resources
- Minerology and Petrology
- Paleomagnetism
- Paleontology
- Physical Geography
- Stratigraphy and Sedimentation
- Surveying

3. Ocean Sciences and Marine Sciences
   - Biological Oceanography
   - Geological Oceanography
   - Marine Biology
   - Marine Oceanography
   - Marine Sciences
   - Oceanography, Chemical and Physical

4. Other Geosciences, Atmospheric and Ocean Sciences
   - Other fields that cannot be classified using the fields listed above

D. Life Sciences

1. Agricultural Sciences
   - Agricultural Business and Management
   - Agricultural Chemistry
   - Agricultural Economics
   - Agricultural Engineering – report in Engineering
   - Agricultural Production Operations
   - Animal Sciences
   - Applied Horticulture and Horticultural Business Services
   - Aquaculture
   - Fishing and Fisheries Sciences and Management
   - Food Sciences and Technology
   - Forestry
   - International Agriculture
   - Plant Sciences
   - Soil Sciences
   - Wood Science

2. Biological and Biomedical Sciences
   - Allergies and Immunology
   - Biochemistry, Biophysics, and Molecular Biology
   - Biogeography
   - Biology and Biomedical Sciences, General
   - Biomathematics, Bioinformatics, and Computational Biology
   - Biotechnology
   - Botany and Plant Biology
   - Cell, Cellular Biology, and Anatomical Sciences
   - Epidemiology, Ecology and Population Biology
   - Genetics
   - Microbiological Sciences and Immunology
   - Molecular Medicine
   - Neurobiology and Neuroscience
   - Pharmacology and Toxicology
   - Physiology, Pathology and Related Sciences
   - Zoology, Animal Biology

3. Health Sciences
   - Advanced, Graduate Dentistry and Oral Sciences
   - Allied Health and medical Assisting Services
   - Bioethics, Medical Ethics
   - Clinical Medicine Research
   - Clinical/Medical Laboratory Science/Research and Allied Professions
   - Communication Disorders Sciences and Services
   - Dentistry
   - Dietetics and Clinical Nutrition Services
   - Health and Medical Administrative Services
   - Health, Medical Preparatory Programs
   - Gerontology, Health Sciences
   - Kinesiology and Exercise Science
   - Medical Clinical Science, Graduate Medical Studies
   - Medical Illustration and Informatics
   - Medicine
   - Mental Health
   - Nursing
   - Optometry
   - Osteopathic Medicine, Osteopathy
   - Pharmacy, Pharmaceutical Sciences, and Administration
   - Podiatric Medicine, Podiatry
   - Public Health
   - Radiological Science
   - Registered Nursing, Nursing Administration, Nursing Research and Clinical Nursing
   - Rehabilitation and Therapeutic Professions
   - Veterinary Biomedical and Clinical Sciences
   - Veterinary Medicine

4. Natural Resources and Conservation
EXAMPLES OF DISCIPLINES

- Natural Resources Conservation and Research
- Natural Resources Economics
- Natural Resources Management and Policy
- Renewable Natural Resources
- Wildlife and Wildlands Science and Management

5. Other Life Sciences
   - Other Life Sciences that cannot be classified using the fields listed above

E. Mathematics and Statistics
- Applied Mathematics
- Mathematics
- Statistics

F. Physical Sciences

1. Astronomy and Astrophysics
   - Astronomy
   - Astrophysics
   - Planetary Astronomy and Science
2. Chemistry
   - (except Biochemistry – report in Biological and Biomedical Sciences)
   - Analytical Chemistry
   - Chemical Physics
   - Environmental Chemistry
   - Forensic Chemistry
   - Inorganic Chemistry
   - Organic Chemistry
   - Organo-metallic Chemistry
   - Physical Chemistry
   - Polymer Chemistry
   - Theoretical Chemistry

3. Materials Science
   - Materials Chemistry
   - Materials Science

4. Physics
   - Acoustics
   - Atomic, Molecular Physics
   - Condensed Matter and Materials Physics
   - Elementary Particle Physics
   - Mathematical Physics
   - Nuclear Physics
   - Optics, Optical Sciences
   - Plasma, High-Temperature Physics
   - Theoretical Physics

5. Other Physical Sciences
   - Other Physical Sciences that cannot be classified using the fields listed above

G. Psychology
- Clinical Psychology
- Counseling and Applied Psychology

- Human Development
- Research and Experimental Psychology

H. Social Sciences
1. Anthropology
   - Cultural Anthropology
   - Medical Anthropology
   - Physical and Biological Anthropology
2. Economics
   - Applied Economics
   - Business Development
   - Development Economics and International Development
   - Econometrics and Quantitative Economics
   - Industrial Economics
   - Labor Economics
   - Managerial Economics
   - Public Finance and Fiscal Policy

3. Political Science and Government
   - Comparative Government
   - Government
   - Legal Systems
   - Political Economy
   - Political Science
   - Political Theory

4. Sociology, Demography, and Population Studies
   - Comparative and Historical Sociology
   - Complex Organizations
   - Cultural and Social Structure
   - Demography and Population Studies
   - Group Interactions
   - Rural Sociology
   - Social Problems and Welfare Theory
   - Sociology

5. Other Social Sciences
   - Archeology
   - Area, Ethnic, Cultural, Gender, and Group Studies
   - Cartography
   - City, Urban, Community and Regional Planning
   - Criminal Science and Corrections
   - Criminology
   - Geography
   - Gerontology, Social Sciences
   - International Relations and National Security Studies
   - Linguistics
   - Public Policy Analysis
   - Regional Studies
   - Urban Studies, Affairs
EXAMPLES OF DISCIPLINES

I. Other Sciences
   • Use this category for R&D that involves at least one S&E field (rows A-H) if it is impossible to report multidisciplinary or interdisciplinary R&D expenditures in specific fields.

J. Non-S&E Fields
   1. Education
      • Education Administration and Supervision
      • Education Research
      • Teacher Education, Specific Levels and Methods
      • Teaching Fields
   2. Law
      • Law
      • Legal Studies
   3. Humanities
      • English Language and Literature, Letters
      • Foreign Languages and Literatures
      • History, Including History and Philosophy of Science and Technology
      • Humanities, General
      • Liberal Arts and Sciences
      • Philosophy and Religious Studies
      • Theology and Religious Vocations
   4. Visual and Performing Arts
      • Drama, Theatre Arts and Stagecraft
      • Film, Video, and Photographic Arts
      • Fine and Studio Arts
      • Music
   5. Business Management and Business Administration
      • Business Administration
      • Business Management
      • Business, Managerial Economics
      • Management Information Systems and Services
   6. Communication and Communications Technologies
      • Communication and Media Studies
      • Communications Technologies
      • Journalism
      • Radio, Television, and Digital Communication
   7. Social Work
      • (no specific examples)
   8. Other Non-S&E Fields
      • Architecture
      • Family, Consumer Sciences and Human Sciences
      • Foods, Nutrition, and Wellness Studies
      • Landscape Architecture
      • Library Science
      • Military Technology and Applied Science
      • Parks, Sports, Recreation, Leisure and Fitness
      • Public Administration and Public Affairs
      • Other non-S&E fields that cannot be classified using the fields listed above
      • Also use this category for R&D that involves multiple non-S&E fields if it is impossible to report multidisciplinary or interdisciplinary R&D expenditures in specific fields.