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.