**Memorandum**

**Date:** February 24, 2011

**To:** Shelly Martinez, Desk Officer

 Office of Management and Budget

**From:** Lynda T. Carlson, Division Director

 National Center for Science and Engineering Statistics

 National Science Foundation

**Via:** Suzanne Plimpton, Reports Clearance Officer

 National Science Foundation

**Subject:** Request for Approval of Methodological Work on the NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS)

The National Science Foundation requests approval of methodological work for the GSS to determine: (1) institutions’ eligibility for the survey and (2) the best procedures to use to efficiently screen potentially eligible institutions. Approximately 500 institutions, primarily master-level institutions, have been identified using Integrated Postsecondary Education Data System (IPEDS) completions data and other sources as offering graduate degrees that may be eligible for the GSS. Eligibility will be determined for the branch campuses and separately organized schools that offer eligible graduate degree programs at the 500 institutions.

**Background**

The target population for the GSS is defined as U.S. academic institutions that offer graduate degree-credit programs in the sciences and engineering (as defined by NSF) and in health-related fields (as defined by NIH) in the U.S., including post-baccalaureate programs. An institution is considered eligible, or in-scope, if it meets at least one of the following criteria:

* Grants at least one master’s or doctoral degree in at least one program listed in selected NCES Classification of Instructional Programs (CIP) codes.
* Has at least one postdoctoral appointee or non-faculty research staff member conducting research in at least one of the following broad areas: agricultural sciences, computer sciences, engineering, environmental sciences, life sciences (biological and health), mathematical sciences, physical sciences, psychology, and social sciences.

The initial determination of the 500 institutions’ eligibility for the GSS was based on a review of the institutions’ websites for information pertaining to the CIP codes of graduate degree completions reported to IPEDS. While determining the institutions’ eligibility, the survey contractor also identified additional graduate programs that may have been eligible. The review resulted in assigning a code to each institution as “likely to be eligible”, “unlikely to be eligible”, or “undetermined” based on the eligibility of the graduate degree programs listed on the institutions’ website. The results of the initial eligibility determination after the QC review are displayed in Table 1 below.

Table1. Eligibility codes based on reviews of institutions’ websites

|  |  |  |
| --- | --- | --- |
| Code | Value | Number of institutions |
| 2 | Likely to be Eligible | 219 |
| 3 | Unlikely to be Eligible | 270 |
| 4 | Undetermined | 41 |
| 5 | Ineligible (School reported by existing GSS institution) | 20 |
| 6 | Ineligible (School closed) | 2 |
| 7 | Ineligible (No GSS-eligible programs identified at school) | 6 |
|  | Total | 558 |

We had originally planned to base the decision of whether or not to add institutions to the GSS only on the results of the website reviews. Given degree program variability within and across institutions and their schools, we decided that further screening is necessary to confirm and verify the eligibility of the degree programs offered.

**Proposed methodology**

Within institutions, schools will be contacted and asked to complete a short screener questionnaire via the web. The initial contact will be with the institutional research office with additional contacts to other offices (such as the graduate school) if the institutional research office contact cannot be identified. Large schools and schools that do not complete the web survey will be asked to complete the screener questionnaire by phone.

For most GSS-eligible fields of study, the screening process will confirm that a graduate degree identified in the IPEDS completion data and the institution website review is offered in that field. However, there are three conditions based on field types which will require additional screening to determine eligibility.

1. Some fields have specific practitioner degrees that are excluded from GSS: architecture, anesthesiology, dental sciences, nursing, ophthalmology, pharmaceutical sciences, veterinary science, clinical medicine (not elsewhere classified) and chemistry.

For these fields, respondents will be asked to list the graduate degree programs offered in the field.

1. In some GSS-eligible fields there are distinctions between research-oriented and practitioner-oriented degrees that are not clear by the name of the degree program. These fields are: nutrition, family and consumer sciences, communication disorders sciences, health-related fields (not elsewhere classified), psychology, political science/public administration.

For these fields, respondents will be asked to answer 4-5 additional items.

1. In two fields, engineering management and management information systems, there is a distinction between whether the degree is primarily a management degree or a science and engineering degree.

For these fields, respondents will be asked if they would categorize the program as a science and engineering program, management program, or multidisciplinary/interdisciplinary program.

The screener questionnaire and eligibility determination criteria are provided in Attachment 1. Answers to the screener questionnaire will be used to determine eligibility based on the criteria provided in Attachment 1. If there is a conflict between the eligibility statuses determined from the screener questionnaire versus the website review, the institution/school will be contacted to obtain additional information related to eligibility criteria. NSF will review the final recommendations made by the survey contractor concerning institutions’ eligibility and will decide which institutions to include in the 2011 GSS.

Results of the screening process will be analyzed to determine the best procedures for screening potentially eligible institutions/schools in future GSS cycles. For example, we will investigate whether there are CIP codes for which the degree program eligibility status was the same across all sources (IPEDS completion, institution website review, and screening survey). This will allow us to streamline the future screening process and increase efficiency.

The tentative schedule for this methodological work is as follows:

|  |  |
| --- | --- |
| **Proposed Date** | **Activity or Deliverable** |
| February 24, 2011 | OMB submission for approval |
| March 10, 2011 | OMB clearance  |
| March 22, 2011 | Finalize instrument and send letters to presidents of potentially new institutions |
| March 28, 2011 | Send emails to contact persons at potentially new institutions to begin eligibility screening survey data collection |
| April 11, 2011 | Begin phone prompts, answer questions |
| May 23, 2011 | End eligibility screening survey data collection |
| June 15, 2011 | Preliminary institution database and methodology report available to NSF |
| July 8, 2011 | Final database and report available to NSF |
| August 5, 2011 | NSF approval of eligible institutions to be included in 2011 GSS  |

**Response Burden**

We estimate approximately 250 burden hours for this methodological work: a 15 minute survey for approximately 1,000 departments in 500 institutions. Approximately 15 minutes per department should provide sufficient time for completing the screening questionnaire. This estimate is covered by the current GSS clearance which includes 360 burden hours for future testing needs.

Contact Person

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Human Resources Statistics Program

National Center for Science and Engineering Statistics

National Science Foundation

Attachment 1

1. Eligibility Screening Questions for GSS Frame Expansion

Introduction Questions (asked of all school respondents)

1. On behalf of NSF and NIH, we would like to ask you a few questions about some of your graduate programs and degrees to determine if <SCHOOLNAME> is eligible to participate in the Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS).

1. Please answer 'Yes' or 'No' to indicate whether <SCHOOLNAME> offers graduate degrees in each of the following academic fields of study listed below.

[List academic field names identified from IPEDS and during school website review]

(YES/NO)

1. In addition to the academic fields of study that you reported in the previous question, please review the list below and select any fields in which <SCHOOLNAME> is offering graduate degrees.

Do not include certificate programs that only award professional degrees, such as AuD, DCS, DDS, DN, DNP, DO, DPM, DPT, DScPT, EdD, JD, MD, ND, OD, OTD, PharmD, PsyD, or master's in biomedical technology/technician, dental hygiene/hygienist, pharmacy, pharmaceutical sciences/administration, OT, PT, or nursing (except nursing science).

[List GSS eligible fields from Attachment 2]

For each field reported as “Yes” in Q2, followed by each field selected in Q3, ASK:

4. a) Please provide the name of the department at <SCHOOLNAME> that grants graduate degrees in <GSSCODE>. [ONLY ASKED ONCE] If you have more than one department that awards graduate degrees in this field, please enter the first of those departments.

(ENTER DEPT NAME)

b) What is the highest degree offered within this department?

(Master’s degree, Doctoral degree, Other degree-specify)

c) Please list all graduate degree programs offered by this department.

(ENTER DEGREE PROGRAM NAME: e.g., PhD in Clinical Psychology, Master’s in Organizational Psychology)

The GSS fields highlighted in blue in ATTACHMENT 2 will be screened further using the additional questions below.

The GSS fields highlighted in yellow (computer science and engineering management) will be screened using only the introduction questions 1-4 above and the question highlighted in yellow below.

Questions for master’s degree programs**[[1]](#footnote-1)** [Asked IF 4b=Master’s degree]

M1. a) Is the master’s degree program in the <department name> designed to prepare students to pursue a research doctorate? (YES/NO)

b) [IF YES:]  Over the last 3 years, approximately what percentage of students in the master’s program in <department name> have gone on to pursue a research doctorate?

(Less than 25%, 25-50%, Over 50%, DK)

c) [IF DK:] What is your best guess? (Less than 25%, 25-50%, Over 50%, DK)

M2. a) Is the master’s degree program in the <department name> designed to prepare students for research-oriented careers? (YES/NO)

b) [IF YES:]  Over the last 3 years, approximately what percentage of graduates from the master’s degree program in <department name> found jobs in research-oriented careers?

(Less than 25%, 25-50%, Over 50%, DK)

c) [IF DK:]  What is your best guess?   (Less than 25%, 25-50%, Over 50%, DK)

M3. a)  Does the master’s degree program in <department name> include a research requirement that students need to complete before obtaining their degree, for example, a research-based thesis? (YES/NO/OPTIONAL)

b)  [IF YES:]  What is the requirement? (OPEN ENDED RESPONSE)

M4. a)  Does the master’s degree program in <department name> lead to professional licensure?

(YES/NO/OPTIONAL)

b) [IF YES/OPTIONAL:]  Over the past 3 years, approximately what percent of graduates of the master’s degree program in <department name> took the licensing exam?

(Less than 25%, 25-50%, Over 50%, DK)

c) [IF DK:]  What is your best guess? (Less than 25%, 25-50%, Over 50%, DK)

M5. Finally, what type of work or study do the graduates with master’s degree in <department name> typically pursue after obtaining their degree? (OPEN ENDED RESPONSE)

M6. [Ask only for computer science/MIS and engineering management degree programs] Would you categorize the master’s degree program in [engineering management/management information systems or information sciences systems] as a:

[PROVIDE A CHECK BOX NEXT TO EACH CATEGORY BELOW SO MORE THAN ONE RESPONSES CAN BE SELECTED]

1. science and engineering program,
2. management program, or

c) multidisciplinary/interdisciplinary program?

**Questions for doctorate-level programs** [Asked IF 4b=doctoral degree:]

D1. a) Is the doctoral degree program in <department name> designed to prepare students for research-oriented careers? (YES/NO)

1. [IF YES:]  Over the last 3 years, approximately what percentage of graduates from the doctorate program in <department name> found jobs in research-oriented careers?

(Less than 25%, 25-50%, Over 50%, DK)

c) [IF DK:] What is your best guess?   (Less than 25%, 25-50%, Over 50%, DK)

D2. a) Does this doctorate program in <department name> include a research requirement that students need to complete before obtaining their degree, for example, a research-based thesis?

 (YES/NO/OPTIONAL)

b) [IF YES:]  What is the requirement? (OPEN ENDED RESPONSE)

D3. a) Does the doctoral degree program in <department name> lead to professional licensure?

(YES/NO/OPTIONAL)

b) [IF YES/OPTIONAL:]  Over the past 3 years, approximately what percent of graduates of the doctoral degree program in <department name> took the licensing exam?

(Less than 25%, 25-50%, Over 50%, DK)

c.) [IF DK:]  What is your best guess?   (Less than 25%, 25-50%, Over 50%, DK)

D4. Finally, what type of work or study do the graduates with doctoral degree in <department name> typically pursue after obtaining their doctorate? (OPEN ENDED RESPONSE)

D5. [Ask only for computer science/MIS and engineering management degree programs] Would you categorize the doctoral degree program in [engineering management/management information systems or information sciences systems] as:

[PROVIDE A CHECK BOX NEXT TO EACH CATEGORY BELOW SO MORE THAN ONE RESPONSES CAN BE SELECTED]

1. science and engineering program,
2. management program, or
3. multidisciplinary/ interdisciplinary program?
4. Is there another department that grants graduate degrees in <GSSCODE>? (YES/NO)

IF YES: GO BACK TO Q4a.

IF NO: LOOP IS REPEATED FOR THE NEXT FIELD.

1. **Eligibility Determination Criteria for Selected Fields That Require Additional Screening Questions**
2. A program eligibility variable will be constructed using the initial questions in the research/practice question series (QM1a – QM3a/QD1a-QD2a).  Degree programs that have yes answers to 2 of these questions will be considered eligible, although their status will be reviewed if the respondent also answered yes to the professional licensing question (QM4a/QD3a).  Degree programs that have a yes answer to only 1 of these questions will be reviewed using information from the school website review the followup questions (QM5/QD4).  Degree programs with all no answers to the first question series will be considered ineligible.
3. A response quality variable will also be constructed using each of the follow-up sub-questions in the research/practice series.  If the degree programs are research oriented (Yes to QM1a/QM2a/QD1a), cases would get a code of 100 if they said that 50%+ of their students pursue a research doctorate (QM1b), and another 100 if they said that 50%+ work in research oriented fields (QM2b/QD1b), and an additional 100 if they provided valid research requirements (QM3b/QD2b).  Lower points (10 each ) would be given if less than 50% pursued research doctorates or work in research oriented fields, and 1 point would be given for don’t know responses.  The point values should not be considered weights; the values are assigned to make sure that unique patterns of response are captured in the variable. These response quality variables will be summed to create a Total Quality Response Variable for each degree program.
4. A crosstab will be run on the program eligibility variable by the response quality variable.  Programs deemed to be eligible that have values of less than 200 on the Total Quality Response variable will be reviewed for further determination.

One of the reasons the follow-up sub-questions are included although qualitative in nature is that the school respondents, when asked about whether their students pursue research careers/study, sometimes over-report such instances.

Algorithm for determining final eligibility:

1. Program eligibility

 Count the number of Yes answers to QM1a, QM2a/QD1a, and QM3a/QD2a.

* If TotalYes = 2 or 3, and QM4/QD3 = No then Program = Eligible.
* If TotalYes = 2 or 3, and QM4/QD3 = Yes then Program = Eligible unless degree exclusions apply.
* If TotalYes = 1 and QM4/QD3 = No then review QM5/QD4 responses and decide eligibility.
* If TotalYes = 1 and QM4/QD3 = Yes then review QM5/QD4 responses and decide eligibility.
* If TotalYes = 0 then Program = Ineligible.

2.  Response quality

* Recode RQM1: 100 if QM1a=1 and (QM1b or QM1c)>50%; 10 if QM1a=1 and (QM1b or QM1c)>50%; or 1 if QM1a=1 and (QM1b or QM1c)=DK.
* Recode RQM2/RQD1: 100 if QM2a/QD1a=1 and QM2b/QM2c/QD1b/QD1c >50%; 10 if QM2a/QD1a=1 and QM2b/QM2c/QD1b/QD1c < 50%; or 1 if QM2a/QD1a=1 and QM2c/QD1c=DK.
* Recode RQM4/RQD3: 100 if QM4a/QD3a=1 and QM4b/QD3b/QM4c/QD3c >50%; 10 if QM4a/QD3a=1 and QM4b/QM4c/QD3b/QD3c< 50%; or 1 if QM4a/QD4a=1 and QM4c/QD3c=DK.
* Recode RQM3/RQD2: 100 if QM3a/QD2a=1 and QM3b/QD2b = valid research requirements; 10 if QM3a/QD2a=1 and QM3b/QD2b =invalid research requirements; or 1 if QM3a/QD2a=1 and QM3b/QD2b=DK.
1. Total quality response

For master’s program: Sum (RQM1, RQM2, RQM3, RQM4);

For doctorate program: Sum (RQD1, RQD2, RQD3)

## **Attachment 2**

**2010 Survey of Graduate Students and**

**Postdoctorates in Science and Engineering (GSS)**

**Complete List of Eligible Fields and Codes**

**Contents:**

[Agricultural Science Fields 8](#_Toc243299253)

[Architecture Fields 9](#_Toc243299254)

[Biological Science Fields 9](#_Toc243299255)

[Communication Fields 10](#_Toc243299256)

[Computer Science Fields 10](#_Toc243299257)

[Earth, Atmospheric, and Ocean Science Fields 10](#_Toc243299258)

[Engineering Fields 10](#_Toc243299259)-[11](#_Toc243299260)

[Family and Consumer Sciences/Human Sciences Fields 11](#_Toc243299261)

[Health Fields 11](#_Toc243299262)-[13](#_Toc243299263)

[Mathematical Science Fields 13](#_Toc243299264)

[Physical Science Fields 13](#_Toc243299265)[-14](#_Toc243299266)

[Psychology Fields 14](#_Toc243299267)

[Social Science Fields 14](#_Toc243299268)[-15](#_Toc243299269)

[Multidisciplinary/Interdisciplinary Studies 15](#_Toc243299270)

Please do not include certificate programs or units that only award professional degrees, such as AuD, DDS, DN, DNP, DO, DPM, DPT, DScPT, JD, MD, ND, OD, OTD, PharmD, or PsyD.

| **Field** | **GSS code** | **Additional Program Titles** |
| --- | --- | --- |
| Agricultural Science Fields **(see also 102)** |
| Agricultural Economics | 901 | Natural Resource Economics |  |
| Agricultural Sciences | 501 | Agricultural and Horticultural Plant BreedingAgricultural Animal BreedingAgriculture, Agriculture Operations and Related SciencesAgronomy and Crop ScienceAnimal HealthAnimal NutritionAnimal SciencesDairy ScienceEnvironmental ScienceEnvironmental StudiesFishing and Fisheries Sciences and ManagementFood ScienceFood Science and TechnologyFood Technology and ProcessingForest Management/Forest Resources ManagementForest Resources Production and ManagementForest Sciences and BiologyForestry | Horticultural ScienceInternational AgricultureLand Use Planning and Management/DevelopmentLivestock ManagementNatural Resources Management and PolicyNatural Resources/ConservationOrnamental HorticulturePlant Protection and Integrated Pest ManagementPlant SciencesPoultry ScienceRange Science and ManagementSoil Chemistry and PhysicsSoil MicrobiologySoil Science and AgronomySoil SciencesUrban ForestryWater, Wetlands, and Marine Resources ManagementWildlife and Wildlands Science and Management |
| Architecture Fields |  |  |  |
| Architecture (exclude MArch, DArch., and DED) | 940 |  |  |
| Biological Science Fields |
| Anatomy | 601 |  |  |
| Biochemistry | 602 | Biochemistry/Biophysics and Molecular Biology |  |
| Biology | 603 | Biological Sciences  |  |
| Biometry and Epidemiology | 604 | BioinformaticsBiomathematicsBiometry/Biometrics  | BiostatisticsMedical Informatics |
| Biophysics | 605 |   |  |
| Botany | 606 | Plant BiologyPlant Molecular Biology | Plant Pathology/PhytopathologyPlant Physiology |
| Cell and Molecular Biology | 607 | Cell Biology and AnatomyCell/Cellular and Molecular BiologyCell/Cellular Biology and HistologyDevelopmental Biology and Embryology | Molecular BiochemistryMolecular BiophysicsNeuroanatomyPhotobiologyStructural Biology |
| Ecology | 608 |  |  |
| Entomology and Parasitology | 609 |  |  |
| Genetics | 610 | Animal GeneticsEvolutionary BiologyHuman/Medical Genetics | Microbial and Eukaryotic GeneticsMolecular GeneticsPlant Genetics |
| Microbiology, Immunology, and Virology | 611 | Medical Microbiology and BacteriologyMycology |  |
| Neuroscience | 950 |  |  |
| Nutrition[[2]](#endnote-1) | 612 | Foods, NutritionHuman Nutrition | Nutrition Science |
| Pathology | 613 | Experimental Pathology  |  |
| Pharmacology | 614 | Environmental ToxicologyMolecular PharmacologyMolecular Toxicology | NeuropharmacologyPharmacology and ToxicologyToxicology |
| Physiology | 615 | Cell PhysiologyExercise PhysiologyMolecular PhysiologyNeurobiology and Neurophysiology  | Oncology and Cancer BiologyPhysiology, Pathology, and Related SciencesReproductive BiologyVision Science/Physiological Optics |
| Zoology | 616 | Animal Behavior and EthologyAnimal Biology | Animal PhysiologyWildlife Biology |
| Biosciences, not elsewhere classified | 617 | Aquatic Biology/LimnologyBioethics/Medical EthicsBiological and Life Sciences, OtherBiomedical SciencesBiotechnologyConservation Biology | Ecology, Evolution, Systematics and Population BiologyEnvironmental BiologyMedical IllustrationPopulation BiologySystematic Biology/Biological Systematics |
| Communication Fields |  |  |
| Communication | 930 | Communication and Media StudiesCommunication Studies/Speech Communication and RhetoricDigital Communication and Media/Multimedia | Health CommunicationMass Communication/Media StudiesOrganizational CommunicationPolitical Communication |
| Computer Science Fields |  |  |  |
| Computer Science (exclude DCS) | 401 | Artificial Intelligence and RoboticsComputer and Information SciencesComputer and Information Systems SecurityComputer GraphicsComputer Systems Analysis/Analyst  | Computer Systems Networking and TelecommunicationsData Modeling/Warehousing and Database AdministrationInformation Science/StudiesInformation TechnologyManagement Information SystemsManagement Science |
| Earth, Atmospheric, and Ocean Science Fields |
| Atmospheric Sciences | 301 | Atmospheric Chemistry and Climatology  | Atmospheric Physics and DynamicsMeteorology |
| Geosciences | 302 | GeochemistryGeochemistry and PetrologyGeology/Earth Science  | Geophysics and SeismologyHydrology and Water Resources SciencePaleontology |
| Ocean Sciences | 303 | Marine Biology and Biological Oceanography  | Oceanography, Chemical and Physical |
| Earth, Atmospheric, and Ocean Sciences, not elsewhere classified | 304 |  |  |
| Engineering Fields |  |
| Aerospace Engineering | 101 | Aeronautical Engineering  | Astronautical Engineering |
| Agricultural Engineering | 102 | Bioengineering | Biological Engineering  |
| Biomedical Engineering | 103 | Biomedical/Medical Engineering  | Biomedical Technology/ Technician (exclude master's) |
| Chemical Engineering | 104 | Polymer/Plastics Engineering  | Wood Science and Wood Products/Pulp and Paper Technology  |
| Civil Engineering | 105 | Architectural EngineeringEnvironmental/Environmental Health EngineeringGeotechnical EngineeringStructural Engineering  | Surveying EngineeringTransportation and Highway EngineeringWater Resources Engineering |
| Electrical Engineering | 106 | Communication EngineeringComputer EngineeringComputer Hardware Engineering  | Computer Software EngineeringElectronics Engineering |
| Engineering Science & Physics | 107 | Engineering Physics  | Engineering Science |
| Industrial/Manufacturing Engineering | 108 | Operations Research  | Systems Engineering |
| **Engineering Fields - continued next page** |
| Engineering Fields – continued |
| Mechanical Engineering | 109 | Engineering Mechanics  |  |
| Metallurgical and Materials Engineering | 110 | Ceramic Sciences and EngineeringMaterials Science  | Textile ScienceTextile Sciences and Engineering |
| Mining Engineering | 111 | Geological/Geophysical Engineering | Mineral Engineering |
| Nuclear Engineering | 112 |  |  |
| Petroleum Engineering | 113 |  |  |
| Engineering, not elsewhere classified | 114 | Construction EngineeringForest Engineering | Naval Architecture and Marine Engineering Ocean Engineering |
| Family and Consumer Sciences/Human Sciences Fields |
| Family and Consumer Sciences/Human Sciences | 920 | Adult Development and AgingBusiness Family and Consumer Sciences/Human SciencesChild DevelopmentConsumer Economics  | Family SystemsHousing and Human EnvironmentsHuman Development and Family Studies |
| Health Fields **(see also 103)** |  |
| Anesthesiology | 701 | Nurse Anesthetist (exclude master’s) |
| Cardiology | 702 | Cardiovascular Science | Cardiovascular Diseases |
| Communication Disorders Sciences | 723 | Audiology/Audiologist and Hearing Sciences (exclude AuD)Audiology/Audiologist and Speech Language Pathology/ Pathologist | Communication Disorders Sciences and Services, OtherSpeech-Language Pathology/Pathologist |
| Dental Sciences | 718 | Advanced/Graduate Dentistry and Oral Sciences, Other (exclude DDS)Dental Clinical Sciences, GeneralDental Hygiene/Hygienist (exclude master’s)Dental MaterialsDental Public Health and Education | Endodontics/EndodontologyOral Biology and Oral PathologyOral/Maxillofacial SurgeryOrthodontics/OrthodontologyPediatric Dentistry/PedodonticsPeriodontics/PeriodontologyProsthodontics/Prosthodontology |
| Endocrinology | 704 | Pediatric Endocrinology |  |
| Gastroenterology | 705 |  |  |
| Hematology | 706 | Pediatric Hematology |  |
| Neurology | 707 |  |  |
| Nursing Science (research master’s & PhD only) | 719 |  |  |
| **Health Fields - continued next page** |
| **Health Fields (see also 103) – continued** |
| Nursing (exclude master’s, ND & DNP) | 719  | Adult Health Nurse/Nursing (exclude master’s)Clinical Nurse Specialist (exclude master’s)Critical Care Nursing (exclude master’s)Family Practice Nurse/Nurse Practitioner (exclude master’s)Maternal/Child Health and Neonatal Nurse/Nursing (exclude master’s)Nurse Midwife/Nursing Midwifery (exclude master’s)Nursing – Registered Nurse Training (exclude master’s)Nursing Administration (exclude master’s) | Nursing, Other (exclude master’s)Occupational and Environmental Health Nursing (exclude master’s)Pediatric Nurse/Nursing (exclude master’s)Perioperative/Operating Room and Surgical Nurse/Nursing (exclude master’s)Psychiatric/Mental Health Nurse/Nursing (exclude master’sPublic Health/Community Nurse/Nursing (exclude master’s) |
| Obstetrics and Gynecology | 708 |  |  |
| Oncology/Cancer Research | 703 | Pediatric Oncology |  |
| Ophthalmology (exclude OD) | 709 |  |  |
| Otorhinolaryngology | 710 |  |  |
| Pediatrics | 711 | Prematurity & Newborn |  |
| Pharmaceutical Sciences (exclude PharmD) | 720 | Clinical and Industrial Drug DevelopmentIndustrial and Physical Pharmacy and Cosmetic SciencesMedicinal and Pharmaceutical ChemistryNatural Products Chemistry and PharmacognosyPharmaceutics and Drug Design | Pharmacoeconomics/ Pharmaceutical EconomicsPharmacy Administration/Policy/ Regulatory Affairs (exclude master’s)Pharmacy, Pharmaceutical Sciences, and Administration, Other (exclude master’s) |
| Preventive Medicine and Community Health | 712 | Environmental HealthHealth Services/Allied Health/Health SciencesHealth/Medical PhysicsInternational Public Health/ International Health | Maternal and Child HealthOccupational Health and Industrial HygienePublic Health Education and PromotionPublic HealthPublic Health Medicine |
| Psychiatry | 713 | Behavioral Medicine (clinical) | Child Psychiatry |
| Pulmonary Disease | 714 |  |  |
| Radiology | 715 | Radiation Biology/RadiobiologyRadiation Oncology/Therapeutic Radiology | Radiation Protection/Health Physics Technician |
| Surgery | 716 | Orthopedics/Orthopedic Surgery |  |
| **Health Fields - continued next page** |

| **Field** | **GSS code** | **Additional Program Titles** |
| --- | --- | --- |
| Health Fields (see also 103) – continued |
| Veterinary Sciences (exclude DVM) | 721 | Comparative and Laboratory Animal MedicineLarge Animal/Food Animal & Equine Surgery/MedicineSmall/Companion Animal Surgery and MedicineVeterinary AnatomyVeterinary Biomedical and Clinical SciencesVeterinary Biomedicine and Clinical Sciences  | Veterinary Infectious DiseasesVeterinary MedicineVeterinary Microbiology and ImmunobiologyVeterinary Pathology and PathobiologyVeterinary PhysiologyVeterinary Preventive Med Epidemiology/Public HealthVeterinary Toxicology and Pharmacology |
| Clinical Medicine, not elsewhere classified (exclude DN, OD, DO, DPM, & MD) | 717 | Aerospace MedicineAllergyClinical Laboratory MedicineClinical Laboratory Science/Medical Technology/ TechnologistClinical/Medical Laboratory Science and Allied Professions, Other (exclude master’s)Complementary and Alternative MedicineConnective Tissue DiseasesCritical Care MedicineDermatologyDiabetesEmergency Medicine | Family MedicineInfectious DiseasesInternal MedicineGene TherapyHIV/AIDSLiver DiseasesMedical Scientist (exclude MD)Metabolic diseasesNephrologyNeurology/NeurosurgeryOccupational MedicinePalliative CarePhysical Medicine and Rehabilitation/PhysiatryTraumaUrology |
| Health-Related, not elsewhere classified | 722 | Assistive/Augmentative Technology and Rehabilitation EngineeringAthletic Training/Trainer - Sports MedicineExercise Science/Physiology and Movement Studies  | Health Professions and Related Clinical Sciences, Other (exclude master’s)Occupational Therapy/Therapist (exclude master’s and OTD)Physical Therapy/Therapist (exclude master’s, DPT, and DScPT) |
| **Interdisciplinary - see Multidisciplinary/Interdisciplinary Studies on page 8** |
| Mathematical Science Fields |  |
| Mathematics and Applied Mathematics | 402 | Algebra and Number TheoryAnalysis and Functional AnalysisComputational Mathematics | Geometry/Geometric AnalysisTopology and Foundations |
| Statistics | 403 | Actuarial ScienceBusiness Statistics | Mathematical Statistics and Probability |
| **Multidisciplinary - see Multidisciplinary/Interdisciplinary Studies on page 8** |
| Physical Science Fields |  |  |
| Astronomy | 201 | Astrophysics  | Planetary Astronomy and Science |
| Biochemistry | 602 | Biochemistry/Biophysics and Molecular Biology |  |
| **Physical Science Fields - continued next page** |

|  |  |  |
| --- | --- | --- |
| **Field** | **GSS code** | **Additional Program Titles** |
| Physical Science Fields – continued |
| Chemistry (exclude ChemD) | 202 | Analytical ChemistryChemical PhysicsInorganic ChemistryOrganic Chemistry  | Physical and Theoretical ChemistryPolymer Chemistry |
| Physics (see also 605) | 203 | AcousticsAtomic/Molecular PhysicsElementary Particle PhysicsNuclear PhysicsOptics/Optical Sciences  | Plasma and High-Temperature PhysicsSolid State and Low -Temperature PhysicsTheoretical and Mathematical Physics |
| Physical Sciences, not elsewhere classified | 204 |   |  |
| Psychology Fields |
| Clinical Psychology (exclude PsyD) | 803 | Clinical Child Psychology  |  |
| Psychology, Combined | 801 | Psychology, General  |  |
| Psychology, except Clinical | 802 | Art Therapy (exclude master’s)Cognitive Psychology and PsycholinguisticsCommunity PsychologyComparative PsychologyCounseling PsychologyDevelopmental and Child PsychologyEducational PsychologyEnvironmental PsychologyExperimental PsychologyFamily PsychologyForensic Psychology | GeropsychologyHealth PsychologyIndustrial and Organizational PsychologyPersonality PsychologyPhysiological Psychology/PsychobiologyPsychology, OtherPsychometrics and Quantitative PsychologyPsychopharmacologySchool PsychologySocial Psychology |
| Social Science Fields |  |  |
| Agricultural Economics | 901 | Natural Resource Economics |  |
| Anthropology (Cultural and Social) | 902 | Archeology | Physical Anthropology |
| Economics | 903 | Applied EconomicsBusiness/Managerial EconomicsDevelopment Economics and International Development | Econometrics and Quantitative EconomicsInternational Economics |
| Geography | 904 | Cartography |  |
| History and Philosophy Of Science (combined program) | 905 | History and Philosophy of Science/Technology |  |
| Linguistics | 906 | Linguistics of ASL, and Other Sign Languages  |  |
| Political Science/Public Administration | 907 | American Government and PoliticsCanadian Government and Politics | International Relations and AffairsPolitical Science and GovernmentPublic Policy Analysis |
| **Social Science Fields - continued next page** |
| **Field** | **GSS code** | **Additional Program Titles**  |
| Social Science Fields – continued |
| Sociology | 908 | Demography and Population Studies  |  |
| Sociology/Anthropology (combined program) | 909 |   |  |
| Social Sciences, not elsewhere classified | 910 | African StudiesAfrican-American/Black StudiesAmerican Indian/Native American StudiesAmerican/United States Studies/CivilizationArea StudiesAsian Studies/CivilizationAsian-American StudiesBalkans StudiesBaltic StudiesCanadian StudiesCaribbean StudiesCentral/Middle and Eastern European StudiesChinese StudiesCommonwealth StudiesCriminal Justice/Safety StudiesCriminalistics and Criminal ScienceCriminologyEast Asian StudiesEthnic, Cultural Minority, and Gender Studies, OtherEuropean Studies/CivilizationForensic Science and TechnologyFrench StudiesGay/Lesbian Studies | German StudiesHispanic-American, Puerto Rican, Mexican American StudiesItalian StudiesJapanese StudiesKorean StudiesLabor StudiesLatin American StudiesNear and Middle Eastern StudiesOrganizational Behavior StudiesPacific Area/Pacific Rim StudiesPolish StudiesRegional Studies (US, Canadian, Foreign)Russian StudiesScandinavian StudiesSlavic StudiesSouth Asian StudiesSoutheast Asian StudiesSpanish and Iberian StudiesTibetan StudiesUkraine StudiesUral-Altaic and Central Asian StudiesUrban Affairs/StudiesWestern European StudiesWomen's Studies |
| Multidisciplinary/Interdisciplinary Studies |
| Multidisciplinary/ Interdisciplinary Studies | 980 | Accounting and Computer Science (combined program)Behavioral SciencesBiological and Physical SciencesBiopsychologyCognitive ScienceGerontologyHolocaust and Related StudiesIntercultural/Multicultural and Diversity StudiesInternational/Global Studies  | Mathematics and Computer Science (combined program)Natural SciencesPeace Studies and Conflict ResolutionScience, Technology and SocietySystems Science and Theory |

1. If respondents indicate the degree offered is “other” in Q5, they will be asked the same questions as for master’s degree programs, replacing the word “master’s” with “graduate”. Questions will be asked about “other” programs only if the respondent lists no doctoral or masters programs. [↑](#footnote-ref-1)
2. The GSS fields highlighted in blue and yellow will be ASKED ADDITIONAL screenING QUESTIONS as indicated in attachment 1. [↑](#endnote-ref-1)