

Guidelines for Mapping Programs to NRC Fields

- A program must have awarded an average of one degree per year over the past five years (2001-02 through 2005-06) to be eligible for the study.
- A program must meet three of four criteria (and is not necessarily synonymous with "department"):
 - It enrolls doctoral students.
 - It appoints its own faculty.
 - It develops its own curriculum for doctoral study.
 - It makes recommendations for the award of degrees.
- Each program must have one **primary** field; subfields are provided to help institutions classify their programs. Data will be reported and any ratings (or ranges of ratings) calculated for primary fields. If a program could be mapped to more than one field, we can identify primary and secondary fields. Data are collected for the entire program; the report will have a cross-reference to the secondary field.
- A field may contain more than one "admitting program." If two programs map to the same field, data can be submitted separately for those programs, and will be reported separately.
- Student data will be published for "admitting programs." Faculty are in fields, students are in programs.
- Emerging fields will not be rated.

NRC Primary Fields and Subfields	Case Programs	PhDs Awarded (5 Yrs)	Eligible for NRC
LIFE SCIENCES			
Biochemistry, Biophysics, and Structural Biology Biochemistry Molecular Biology Biogeochemistry Structural Biology Biophysics	Biochemistry Molecular Biology / Microbiology* *secondary field: Microbiology	26 21	Yes Yes
Cell and Developmental Biology Anatomy Developmental Biology Cell Biology Cancer Biology	Anatomy Cell Biology	4 1	No No
Ecology and Evolutionary Biology Behavior and Ethology Evolution Biogeochemistry Population Biology Botany Terrestrial and Aquatic Ecology	Biology	1	No
Public Health Environmental Health Biostatistics Epidemiology	Epidemiology and Biostatistics	41	Yes

Case PhD Programs Mapped to NRC Doctoral Study Taxonomy

7/28/06

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Genetics and Genomics Computational Biology Genomics Genetics Molecular Genetics	Genetics	36	Yes
Immunology and Infectious Disease Immunity Immunology of Infectious Disease Immunopathology Immunoprophylaxis and Therapy Pathology Parasitology	Pathology	29	Yes
Integrated Biology / Integrated Biomedical Sciences / Biology (Note: This is only if the degree field is not specialized.)			
Kinesiology Biomechanics Motor Control Exercise Physiology Psychology of Movement			
Microbiology Bacteriology Microbial Physiology Environmental Microbiology and Pathogenic Microbiology Microbial Ecology Virology	Molecular Virology	7	Yes
Neuroscience and Neurobiology Behavioral Neurobiology Developmental Neuroscience Cognitive Neuroscience Molecular / Cellular Neuroscience Computational Neuroscience Systems Neuroscience	Neurosciences Neuroscience and Bioengineering	17 0	Yes No
Nursing	Nursing	52	Yes
Pharmacology, Toxicology and Environmental Health Environmental Health Medicinal Chemistry and Pharmaceuticals Pharmacology Toxicology	Pharmacology Environmental Health Sciences	24 3	Yes No
Physiology Cellular and Molecular Physiology Exercise Physiology Comparative / Evolutionary Physiology Systems and Integrative Physiology Endocrinology	Physiology and Biophysics (including Cell Physiology, Systems Physiology, and Biophysics / Bioengineering)	28	Yes
Animal Sciences Animal Sciences Poultry (or Avian) Science Aquaculture and Fisheries Zoology Dairy Science			

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Entomology			
Food Science Food Processing Food Microbiology	Food Chemistry Food Biotechnology		
Forestry and Forest Sciences Forest Biology Forest Management	Wood Science and Pulp / Paper Technology		
Nutrition Comparative Nutrition Human and Clinical Nutrition International and Community Nutrition	Molecular / Genetic / Biochemical Nutrition Nutritional Epidemiology	9	Yes
Plant Sciences Agronomy / Crop Sciences Botany Horticulture	Plant Biology Plant Pathology Plant Breeding and Genetics		
Emerging Fields: Bioinformatics Biotechnology	Systems Biology		
PHYSICAL SCIENCES, MATHEMATICS AND ENGINEERING			
Applied Mathematics Control Theory Dynamic Systems Non-linear Dynamics Numerical Analysis and Computation	Partial Differential Equations Ordinary Differential Equations and Applied Dynamics	Applied Mathematics	0 No
Astrophysics and Astronomy Physical Processes Instrumentation The Sun and Solar System	Stars, Interstellar Medium and Galaxy External Galaxies Cosmology	Astronomy	1 No

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Chemistry Analytical Chemistry Inorganic Chemistry Biochemistry Organic Chemistry Environmental Chemistry Physical Chemistry Materials Chemistry Polymer Chemistry Medicinal-Pharmaceutical Chemistry	Chemistry	64	Yes
Computer Sciences Artificial Intelligence / Robotics OS / Networks Computer and Systems Architecture Software Engineering Graphics / Human Computer Interfaces Theory / Algorithms Numerical Analysis / Scientific Computing Graphics / Human Computer Interfaces Programming Languages / Compilers Databases / Information Systems	Computing and Information Science	10	Yes
Earth Sciences Biogeochemistry Mineral Physics Cosmochemistry Paleobiology Environmental Sciences Paleontology Geology Soil Science Geochemistry Tectonics and Structure Geophysics and Seismology Vulcanology Glaciology	Geological Sciences	3	No
Mathematics Algebra Geometry and Topology Algebraic Geometry Harmonic Analysis and Representation Analysis Logic and Foundations Discrete Mathematics and Combinatorics Number Theory Dynamics / Dynamical Systems Set Theory	Mathematics	4	No
Oceanography and Atmospheric Sciences and Meteorology Atmospheric Sciences Meteorology Climate Oceanography Fresh Water Studies			

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Physics Astronomy and Astrophysics Atomic, Molecular and Optical Physics Biological and Chemical Physics Condensed Matter Physics Cosmology, Relativity, and Gravity Elementary Particles and Fields and String Theory Engineering Physics Fluid Dynamics Non-linear Dynamics Nuclear Plasma and Beam Physics Quantum Physics	Physics	23	Yes
Statistics and Probability Applied Statistics Biostatistics Biometry Probability Statistical Methodology Statistical Theory	Statistics	10	Yes
Aerospace Engineering Aeronautical Engineering Hypersonics Micro UAV's Smart Structures Space Systems Vertical Flight	Aerospace Engineering	0	No
Biomedical Engineering and Bioengineering Agricultural Engineering Biological Engineering Bioelectrical and Neuroengineering Bioimaging and Biomedical Optics Biomaterials Biomechanics and Biotransport Biomedical Devices and Instrumentation Molecular / Cellular / Tissue Engineering Systems and Integrative Engineering	Biomedical Engineering	77	Yes
Chemical Engineering Biochemical / Biomolecular Engineering Catalysis and Reaction Engineering Complex Fluids Membrane Science Petroleum Engineering Polymer Science Process Control and Systems Thermodynamics Transport Phenomena	Chemical Engineering	21	Yes
Civil and Environmental Engineering Civil Engineering Construction Engineering / Management Environmental Engineering Geotechnical Engineering Structural Engineering	Civil Engineering	12	Yes

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Computer Engineering Computer and Systems Architecture Digital Communications and Networking Digital Circuits Hardware Systems Data Storage Systems Robotics	Computer Engineering	7	Yes
Electrical and Computer Engineering Biomedical VLSI and Circuits Computer Engineering Embedded/Hardware Systems Control Theory Systems and Communications Electrical and Electronics Controls Electromagnetics and Photonics Nanotechnology Fabrication Electronic Devices and Semiconductor Power and Energy Manufacturing	Electrical Engineering	21	Yes
Engineering Science and Materials (not elsewhere classified) Engineering Mechanics Non-linear Dynamics Dynamics / Dynamical Systems Mechanics of Materials			
Materials Science and Engineering Biology and Biomimetic Materials Polymer and Organic Materials Ceramic Materials Semiconductor and Optical Materials Metallurgy Structural Materials	Materials Science Macromolecular Science* *secondary fields: Chemical Engineering, Chemistry	20 52	Yes Yes
Mechanical Engineering Acoustics, Dynamics, and Controls Energy Systems Applied Mechanics Heat Transfer, Combustion Biomechanical Engineering Manufacturing Computer-Aided Engineering and Design Tribology Electro-Mechanical Systems	Mechanical Engineering Fluid and Thermal Science	50 0	Yes No
Operations Research, Systems Engineering, and Industrial Engineering Ergonomics Operational Research Industrial Engineering Systems Engineering	Systems Engineering Operations Research	23 14	Yes Yes
Emerging Fields: Information Science Nuclear Engineering Nanoscience and Nanotechnology			

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Political Science American Politics Comparative Politics International Relations Models and Methods Political Theory	Political Science	2	No
Public Affairs, Public Policy and Public Administration Public Administration Public Affairs Public Policy Urban Studies			
Psychology (Ph.D. programs only) Biological Psychology Clinical Psychology (Ph.D. programs only) Cognition and Perception Cognitive Psychology Community Psychology Developmental Psychology Health Psychology Industrial and Organizational Psychology Personality and Social Contexts Social Psychology	Psychology	33	Yes
Sociology Demography, Population, and Ecology Family, Life Course, and Society Gender and Sexuality Inequality and Stratification Medicine and Health Methodologies: Quantitative, Qualitative, Comparative, and Historical Place and Environment Politics and Social Change Race and Ethnicity Regional Sociology Rural Sociology Social Control, Law, Crime, and Deviance Social Psychology and Interaction Sociology of Culture Theory, Knowledge and Science Work, Economy and Organizations Criminology	Sociology	10	Yes
Emerging Fields: Criminology and Criminal Justice Science and Technology Studies Urban Studies			
ARTS AND HUMANITIES			
American Studies American Film Studies American Material Culture American Popular Culture Ethnic Studies			

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Classics Ancient History (Greek and Roman through Late Antiquity) Ancient Philosophy Byzantine and Modern Greek	Classical Archaeology and Art History Classical Literature and Philology Indo-European Linguistics and Philology		
Comparative Literature			
English Language and Literature Literature in English, British Isles Literature in English, Anglophone (other than British Isles and North America) Literature in English, North America (other than ethnic and minority)	Literature in English, North America, ethnic and minority Feminist, Gender and Sexuality Studies Rhetoric / Composition / Technical Writing Theory	English 15	Yes
French and Francophone Language and Literature French Linguistics	French and Francophone Literature		
German Language and Literature German Linguistics	German Literature		
Language, Societies, and Cultures African Languages and Societies East Asian Languages and Societies European Languages and Societies (nec) Latin American Languages / Societies (nec)	Near Eastern Languages and Societies Slavic Languages and Societies South and Southeast Asian Languages and Societies		
History African Asian European Islamic World / Near East Latin American United States Cultural History Diplomatic History Gender	History of Religion History of Science / Technology / Medicine Intellectual History Legal Medieval History Military History Political History Social History Women's History	History 10	Yes

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History of Art, Architecture and Archaeology American Art and Architecture Ancient, Medieval, Renaissance and Baroque Art and Architecture Asian Art and Architecture Contemporary Art Modern Art and Architecture Theory and Criticism	Art History (including Art History and Museum Studies)	14	Yes
Music (except performance) Composition Ethnomusicology Musicology Music Theory	Musicology	1	No
Philosophy Continental Philosophy Epistemology Esthetics Ethics and Political Philosophy Feminist Philosophy History of Philosophy Logic and Foundations of Mathematics Metaphysics Philosophy of Language Philosophy of Mind Philosophy of Science			
Religion Biblical Studies Comparative Methodologies and Theories Ethics History of Religions of Western Origin History of Religions of Eastern Origins Religious Thought / Theology / Philosophy of Religion			
Spanish and Portuguese Language and Literature Latin American Literature Portuguese Literature Spanish Linguistics Spanish Literature			
Theatre and Performance Studies Theatre History Dramatic Literature, Criticism and Theory Performance Studies Playwriting			
Emerging Fields: Feminist, Gender, and Sexuality Studies Film Studies Race, Ethnicity and post-Colonial Studies Rhetoric, Composition, Technical Writing			