

## Dissertation Defense Forms

1. **Dissertation Checklist**
2. **Transmittal form – due prior to first submission, submit to FLG 240 for processing**
  - a. This form should be signed by the committee chair prior to uploading a first submission. Without this form, no submissions will be sent to the graduate school for review. An email confirmation may also be submitted to the Graduate Program Assistant for approval.
3. **Defense Announcement - 2 weeks prior to scheduled defense**
  - a. This form should be completed and sent to the Graduate Program Assistant for email distribution no later than 2 weeks prior to your scheduled oral defense.
4. **Final Exam form - signed at defense and returned to FLG 240 for processing**
  - a. The entire supervisory committee signs at the defense. An Academic Advisor will submit a confirmation of this form through SIS to the Graduate School immediately following your successful oral defense.
5. **ETD signature page - signed at defense and returned to FLG 240 for processing**
  - a. The entire supervisory committee signs this form at the defense. If the committee wants revisions made to the final document, the committee chair may request that this form be held until all stipulations are met. If that is the case, the signature page will not be submitted in GIMS until email confirmation is received from the committee chair stating that the student is cleared to make the final submission.
6. **Publishing Agreement - signed at defense and returned to FLG 240 for processing**
  - a. This form will be signed at your defense by the student and committee chair. Most students choose the 2-year campus restriction if planning to publish this research elsewhere. Secret is intended for those seeking a patent, etc. The majority of students also elect to release the full dissertation to ProQuest after UF campus restriction periods expire.
7. **ProQuest Publishing Agreement – must be sent to the Graduate School prior to final submission**
  - a. Students complete this form after the defense and are responsible for its delivery to the Graduate School by the Final Submission Deadline. If publishing with ProQuest, submit only pages 4-5 to the Grad School for processing. If a student is not forwarding their dissertation to ProQuest, please submit the “abstract only” section on page 11 in the same attachment.

## Doctoral Dissertation Submission Checklist

The dissertation must be completely formatted before submitting to the Editorial Office or it will be rejected. It is not a draft. Allow yourself weeks to complete the formatting process. Consider defending before you make first submission; although not required for dissertation students, it is strongly recommended.

Promptly contact the Application Support Center [visit Rm 224 Hub, call 392-HELP (Option 5), or e-mail [asc-hd@ufl.edu](mailto:asc-hd@ufl.edu)] when you begin writing your dissertation and long before submitting the dissertation for review by one of our editors. The **Application Support Center (ASC)** can help you ensure that you will pass first submission requirements of the Editorial Office. To streamline the use of UF's formatting template and for information regarding how to change settings in it to meet with the Graduate School's guidelines, please contact **ASC**. We also recommend all students register for at least one of their free ETD workshops as well: <http://helpdesk.ufl.edu/application-support-center/etd-technical-support/>

Required to make submission to the Editorial Office—No later than 5:00 p.m. the first submission deadline, these items must be submitted:

- \_\_\_\_\_ Degree application through ONE.UF: You must submit a degree application via ONE.UF for the term in which you intend to graduate. Degree applications do not carry over from semester to semester. Our office is not authorized to move forward with the processing of your dissertation without a proper degree application in place.
- \_\_\_\_\_ Transmittal letter: It is your responsibility to obtain your Committee Chair's signature on this form. Your department's graduate designee can print this form for you and must submit this form through GIMS before you attempt to make submission to the Editorial Office. Please allow your staff adequate time for processing.
- \_\_\_\_\_ Dissertation in PDF electronic format: This is not a draft; it must be near-final and must be completely formatted in order to pass first submission requirements—troubleshoot your document first with **ASC** (Rm. 224 of the Hub) to ensure you are not rejected upon first submission. The **ASC** has developed tutorials on the submission and formatting of your document. You can find those here: <http://helpdesk.ufl.edu/application-support-center/etd-technical-support/>
- \_\_\_\_\_ Journal article: a full sample article from the journal whose reference system you used as a model when formulating your document's reference citations and list. Attach this as a support file within the Editorial Package portal found within the Graduate Information Management System (GIMS), upon your first submission of your dissertation, allowing our editors to see a sample of the style that you used to format your reference list.

Next, a Library Processing Fee of \$12.80 and a \$25 fee for Traditional Publishing with ProQuest will soon appear due in your ONE.UF account. Status updates from the Editorial Office will also arrive in your Gatorlink account in the upcoming business days—follow closely, as these advise you of the specifics of how to move forward with the Editorial Office. First, you should receive an auto. E-mail acknowledging submission of the document. Then, within 2 business days, you will be advised via another e-mail if you have passed the Editorial Office's first submission requirements—if rejected, you only have until 5:00 p.m. on the first submission deadline to remedy this situation.

Forms prepared for your defense: Your department's graduate designee creates the four forms below, from the Graduate Information Management System (GIMS). All forms are typically signed at the defense. Although printed for you by your department, the ProQuest form is submitted directly to our office by you. You should upload the completed and signed form into our system prior to making your final submission. Alternatively, you may send the form via email to [gatedit@aa.ufl.edu](mailto:gatedit@aa.ufl.edu) or by direct delivery to 121 Grinter Hall. The other three forms are submitted electronically through GIMS by your department's graduate staff designee. Accordingly, these three forms remain on file with your department—do not submit the paper forms to Editorial. It is your responsibility, however, to ensure all of these forms are recorded accurately in GIMS by the **Final Submission Deadline** during the term you intend to graduate.

Final Exam Form: Your entire supervisory committee signs. Your graduate coordinator designee submits a confirmation of completion of this form electronically through GIMS once you have successfully orally defended your dissertation. This must be submitted as soon as you successfully defend your dissertation—your graduate designee should not hold this form for revisions to your dissertation. If revisions to the document are necessitated the ETD Signature Page should be held instead (see below).

UF Publishing Agreement: This form will be signed at your defense by you and your supervisory committee chair. You two will decide when to release your dissertation. Most choose the 2-year campus restriction, if planning to publish this research elsewhere. Secret is intended for those seeking a patent, etc. The majority of students also elect to release the full dissertation to ProQuest after UFcampus restriction periods expire. Should you want to restrict it from ProQuest, please submit the abstract only form provided by your dept.

**ProQuest Publishing Agreement:** At your defense, this form is printed by your graduate staff designee and provided to you. You complete the form and are responsible for its delivery to the Graduate School by the **Final Submission Deadline**. See notes above regarding delivery methods. If publishing with ProQuest, please complete the entire "abstract only" form provided to you.

Next, within approximately 15 business days, you will receive an e-mail with recommended changes and directions on moving forward with your final submission. As soon as you have defended and you and your committee are satisfied with the final document, work quickly and carefully to achieve **Final Clearance** status by submitting all submission materials and an acceptable pdf through the GIMS interface. Submit the final document as early in the term as your committee will allow. Our office recommends submitting at least 5 business days in advance of submission deadlines, but you must submit no later than 5:00 p.m. on the **Final Clearance Deadline** for the term in which you intend to graduate. You also must achieve final clearance status by the **Final Clearance Deadline** listed for your intended term. The **ASC** can help you during this process, but do not consider waiting until the days nearing deadlines to submit your document for review, as you take the chance of not completing the process on time. These deadlines apply to all thesis and dissertation students. Complete all requirements well in advance, in order to ensure you do not face the chance of not graduating within your intended term. It's your responsibility to ensure all forms are recorded accurately in GIMS by the **Final Submission Deadline** in the term you intend to graduate, including the **Final Clearance Deadline**.

**EID Signature Page:** Your supervisory committee signs this form at your defense. If your committee wants revisions made to the thesis, your chair (or designee) may hold this form until all stipulations are met. By the final submission deadline and once the Committee approves the final thesis for publication, your graduate designee will submit a confirmation of successful completion of this form electronically through GIMS. You should not submit your final document for review until this form has been posted to GIMS.

**Survey of Earned Doctorates:** Complete the survey at <https://sed-ncses.org>. Keep the confirmation of completion with your permanent records. Check with our office after 3 business days, and certainly before the final clearance deadline, if this remains as a deficiency in the Editorial Package portal found within the [Graduate Information Management System \(GIMS\)](#) for you.



## Dissertation Transmittal Submission

This is not yet submitted to Grad School.

**UFID:**

**College:** Health and Human Performance (HH)

**Name:**

**Major:** Health and Human Performance (HHP)

**Email:**

**Degree:** Doctor of Philosophy (H)

**First Term:**

**Concentration:**

### Transmittal Statement

On behalf of [REDACTED] entire Dissertation Committee, I/we confirm the dissertation document is complete, is not in draft form, and is ready for the Graduate School to review.

All of the following supervisory committee member or their designated substitutes must approve this form before it is submitted to the UF Graduate School.

**Committee Member**

**Approval Signature**

Chair

The original, printed version of this form with all dated signatures must be retained at the department level. Data from the completed form must be submitted electronically via GIMS to the UF Graduate School.



## **TOURISM, HOSPITALITY & EVENT MANAGEMENT**

**COLLEGE OF HEALTH & HUMAN PERFORMANCE  
UNIVERSITY OF FLORIDA**

Announcement for

As part of the requirements for the degree of

With a concentration in

Title

To take place on \_\_\_\_\_ in room FLG \_\_\_\_\_ at \_\_\_\_\_

Supervisory Committee

Chair:

Member:



### Final Exam Submission Form

#### Student Information

Name: \_\_\_\_\_ UFID: \_\_\_\_\_

UF Email: \_\_\_\_\_ PhD Concentration: \_\_\_\_\_

Dissertation Title:		
---------------------	--	--

#### Final Exam Results

The dissertation has been examined by all members of the candidate's supervisory committee and has been:	Approved	Rejected
Defense Date:		
Final Exam Result:	Satisfactory	Unsatisfactory

*All of the following supervisory committee members or their designated substitutes must approve this form before the results can be submitted to the Graduate School.*

	Name	Approval Signature
Chair		
Member		
Member		
External Member		
Special Member		



## Electronic Thesis and Dissertation Signature Page Submission

This is not yet submitted to Grad School.

**UFID:**

**College:** Health and Human Performance (HH)

**Name:**

**Major:** Health and Human Performance (HHP)

**Email:**

**Degree:** Doctor of Philosophy (H)

**First Term:**

**Concentration:**

### ETD Signature Statement

Dissertation entitled:

This document has been reviewed and accepted by the student's supervisory committee.

All of the following supervisory committee member or their designated substitutes must approve this form before it is submitted to the UF Graduate School.

#### Committee Member

#### Approval Signature

Chair	
Member	
Member	
External	

The original, printed version of this form with all dated signatures must be retained at the department level. Data from the completed form must be submitted electronically via GIMS to the UF Graduate School.



## UF Publishing Agreement Submission

Please submit to Grad School to process your request.

**UFID:**

**Name:**

**Email:**

**First Term:**

**College:** Health and Human Performance (HH)

**Major:** Health and Human Performance (HHP)

**Degree:** Doctor of Philosophy (H)

**Concentration:**

### Publishing Agreement Details

I have certified that I have obtained written permission from the owner(s) of any copyrighted matter to be included in my electronic dissertation (hereinafter referred to as ETD), allowing distribution as specified. I have further certified that I maintain copies of all such permissions in my files.

I retain ownership of the copyright of my ETD along with all rights associated with such ownership, including but not limited to, the right to use all or part of my ETD in future works (such as articles or books).

I have hereby granted to the Board of Trustees of the University of Florida (hereinafter referred to as UF) and its agents, principals, successors and assign the nonexclusive license to archive, preserve and grant access to my ETD. This nonexclusive license is bound by the conditions specified below, in all forms of media, now and hereafter. I have also hereby granted permission to UF to display portions of my bibliographic information and the dissertation's abstract.

I also acknowledge if a restriction is not selected, or once said restriction is lifted, Google et al. will be able to harvest the ETD from the UF library catalog.

**Campus-Restricted** means the ETD will be available to UF faculty, staff, or students or to anyone accessing the UF Library Catalog from a UF IP address.

**Secret** means the only information appearing in the UF Library Catalog is the student's name, Committee Chair's name, the department, and the date of degree award.

**Fully released** means the ETD and bibliographic information is accessible to anyone worldwide with internet access.

Choices marked here must match choices entered in the Editorial Document Management (EDM) system. Beginning on the date the student's degree is awarded by UF, the student grants access to his/her ETD subject to the following limitations:

**Immediate release:** ETD will be posted to the UF library catalog, and the content will be fully released immediately upon completion of library processing.

**6-month campus restriction, then immediate release:** ETD will be available to UF faculty, staff, or students, or anyone accessing the UF library catalog on a UF IP address during the restriction period. The student also grants permission to UF to display portions of his/her bibliographic information and the dissertation's abstract during the restriction period. After the restriction period has expired, all content will be fully released.

**1-year campus restriction, then immediate release:** ETD will be available to UF faculty, staff, or students, or anyone accessing the UF library catalog on a UF IP address during the restriction period. The student also grants permission to UF to display portions of his/her bibliographic information and the dissertation's abstract during the restriction period. After the restriction period has expired, all content will be fully released.

**2-year campus restriction, then immediate release:** ETD will be available to UF faculty, staff, or students, or anyone accessing the UF library catalog on a UF IP address during the restriction period. The student also grants permission to UF to display portions of his/her bibliographic information and the dissertation's abstract during the restriction period. After the restriction period has expired, all content will be fully released.

**Secret for 2 years (generally for patent or proprietary purposes), then immediate release:** The only information appearing in the UF library catalog is the student's name, the Committee Chair's name, the department, and the date of degree award during the secret period. After this period has expired, all content will be fully released.

The student has authorized UF to send the content of the ETD to ProQuest at the end of the above designated period.

**Yes:** Print the **ProQuest Publication Agreement** and provide it to the student.

**No:** Print the **ProQuest Abstract Only Publication Agreement** and provide it to the student.

**Not Selected**

The undersigned have agreed that this UF Thesis/Dissertation Publishing Agreement updates any and all previous statements submitted heretofore.

**Student Signature:**

**Chair signature:**

**The original, printed version of this form with all dated signatures must be retained at the department level. Data from the completed form must be submitted electronically via GIMS to the UF Graduate School.**



## FORMS & INSTRUCTIONS for FTP or CD submission of your Doctoral Dissertation or Master's Thesis

### Important Notes

- If you are reading this, your institution does NOT participate in our **online submission service**. That means you will provide your submission package to your graduate school or other designated office, and they will deliver it to us.
- Your university or library may have specific policies regarding dissemination of, and access to, your dissertation. You should understand your institution's policies clearly before you complete the ProQuest forms and submit your dissertation.
- You own and retain copyright to your dissertation. ProQuest only acquires a **non-exclusive** right to distribute your work according to options you choose.
- Most universities hold all submitted dissertations and theses until the end of the semester or quarter, then deliver them to us all at once. Once your manuscript actually arrives at ProQuest, another 6 to 10 weeks are required for processing.
- You can increase the chances of a speedy publishing process by following all instructions, guidelines, and requirements precisely. Use the Submission Checklist. And if you have any questions, call our Author Relations Team at (800) 521-0600 ext. 77020.

### ProQuest Publishing Agreement Quick Start

1. Read and understand the ProQuest Publishing Agreement. This agreement grants ProQuest the right to reproduce and disseminate your work **according to the choices you make**. This is a non-exclusive right; you may grant others the right to use your dissertation or thesis as well. **You retain your copyright**.
2. Choose your publishing option, Open Access Publishing Plus or Traditional Publishing.
3. Select any necessary embargoes and restrictions. **Note:** your institution may have explicit policies regarding embargoes and restrictions, dissemination and access. Check with your graduate school or its equivalent to be sure you comply with institutional policies.
4. Sign the ProQuest Publishing Agreement. Publication of your work may be delayed or impossible if your signature is missing.

### Submission Form

#### Personal information

We require a limited amount of personal information to process your submission and provide records to your institution. Provide your name exactly as it appears on the title page of your manuscript. We request your Country of Citizenship because libraries and researchers are often interested in searching for all dissertations published by authors of a given nation or region. We use your personal information solely for publishing and dissemination, and do not sell or supply your personal information to any third party.

#### Degree & Dissertation or Thesis Information

We use this information to create the bibliographic data that **establishes your work in the primary literature**. It is important this information is accurate and corresponds precisely with the information in your manuscript. Discrepancies between the data you provide in this form and your manuscript can delay publication of your work and make it difficult for other researchers to discover it. Please use full and official names when completing the information about your institution and your advisor and committee members.

#### Title Guidelines

- In databases and indices, your title will appear in sentence case regardless of the conventions of your discipline; e.g., "The long and short of it: a sample title."
- Whenever possible, use full proper names. For example: "Samuel Clemens" not "S. Clemens"; *Hyla arenicolor*, not *H. arenicolor*.

- Try to spell out abbreviations for specialized vocabulary; e.g., "Triassic" rather than "Tr."
- Use word substitutes for formulas, symbols, superscripts, subscripts, Greek characters, etc. For example, use "potassium", not "K"; "first", not "1<sup>st</sup>"; "delta", not "Δ".
- Be sure to include all appropriate accents and diacritical marks.

#### Subject Categories

The first (**primary**) **subject category** that you enter is the one under which your dissertation or thesis will occur in our **citation and abstract indices**. Using Guide 2: ProQuest Subject Categories (attached), choose the category that most **closely corresponds with the field in which you did your graduate research**. You may add one or two more secondary subject categories; these will be associated with your work and may increase its exposure to search engines.

#### Keywords

Adding good keywords is another way to increase the chances your work will be discovered. For example, geographic locations or specialized terms that do not occur in your title or abstract can increase exposure of your work.

#### Contact Information

Provide a **future mailing** address and telephone numbers. If there is an issue with your submission and we are not able to reach you, release of your dissertation or thesis and production of any print copies you order will be substantially delayed. Provide a permanent email address such as gmail.

#### Additional Materials

#### Required Permissions

Any necessary co-authorship or copyright permissions must be secured. If you share authorship with anyone else for any part of your dissertation or thesis, you need to acquire their permission to include that content. If any content in your manuscript, including appendices, is already under another copyright, you need to acquire permission from the copyright holder to use that content. All such permissions must accompany your submission. Go online for more information and a sample permission letter:  
<http://www.proquest.com/go/authorservices>

#### Optional

Supplementary files on digital media. See the website to learn about including multimedia material:  
<http://www.proquest.com/go/authorservices>

## **Completed Submission Package**

All materials should be packaged together and delivered to the appropriate office on your campus. A complete submission package includes:

- Signed ProQuest Publishing Agreement
- COMPLETED Submission Form
- 1 extra copy of your Title Page, identical to the one in your manuscript
- 1 extra copy of your Abstract, identical to the one in your manuscript
- Your complete manuscript
- Any payments you will make directly to ProQuest LLC (**either a certified check in U.S. dollars or valid postal money order in U.S. dollars**)
- Any permission letters necessary to use material under another copyright in your manuscript
- Copyright Registration Form, if you want us to register your copyright
- Any supplementary multimedia material on CD/DVD

## **Checklist**

- Have you indicated your choice of Open Access Publishing Plus or Traditional Publishing?
- Have you indicated any necessary embargoes or restrictions?
- Have you signed the ProQuest Publishing Agreement in the space provided?
- Have you indicated the type of manuscript that you are submitting (Master's Thesis or Doctoral Dissertation)?
- Have you enclosed any payments that you will make directly to us, for the publishing fee and/or copyright registration? Please ensure that whatever form of payment you use will not expire in the 6 months following your submission.
- Have you provided a permanent or future email address where we can reach you if there are any problems processing your submission?
- If you chose to have us register your copyright, have you completed the Copyright Registration Form?
- Is the title of your dissertation identical on the submission form, abstract, and title page of your manuscript?
- Have you included any permission letters necessary to use material under another copyright in your manuscript?
- Is your full name **identical** on the submission form, abstract, and title page of your manuscript? If not, we will use the name as it appears on your title page.
- Are the full names of your advisor/committee chair and committee members **identical** on the submission form and in your manuscript's front pages?
- Have you indicated one or more subject categories that describe your disciplinary area?
- Have you provided keywords that will help search engines discover your research?
- Are all pages of your manuscript present and appropriately numbered? The most common problem with submissions is missing pages.
- Have you enclosed a payment or provided a credit/debit card number, expiration date, and signature for copies of your dissertation/thesis for your personal use? Please ensure that whatever form of payment you use will not expire in the 6 months following your submission.

## **Questions?**

<http://www.proquest.com/go/dissertation>

See our website for answers to many questions, and for information about why most universities and colleges in North America require their graduates to submit their dissertations and theses to ProQuest. In the "Authors" section of the website, topical information includes links to the following Guides:

- Preparing Your Manuscript
- ProQuest Subject Categories
- Open Access versus Traditional Publishing
- Embargoes and Restrictions
- Copyright Guide

Our Customer Service Team is available by phone at (800) 521-0600 ext. 77020 or by email at [disspub@proquest.com](mailto:disspub@proquest.com)

**Need help selecting a subject heading?** Contact our editors at (800) 521-0600 ext. 74883 (Arts, Business, Education, Social Sciences, and Humanities) or ext. 74881 (Behavior, Natural and Physical Sciences, Mathematics)



## 2016-2017 ProQuest Publishing Agreement

This Agreement is between the author (Author) and ProQuest LLC, through its ProQuest Dissertation Publishing business (formerly ProQuest/UMI). Under this Agreement, Author grants ProQuest certain rights to preserve, archive and publish the dissertation or thesis (the Work), abstract, and index terms provided by Author to ProQuest.

### Section I. License for Inclusion of the Work in ProQuest Publishing Program

**Grant of Rights.** Author hereby grants to ProQuest the **non-exclusive**, worldwide right to reproduce, distribute, display and transmit the Work (in whole or in part) in such tangible and electronic formats as may be in existence now or developed in the future. Author further grants to ProQuest the right to include the abstract, bibliography and other metadata in the ProQuest Dissertations & Theses (PQDT) database and in ProQuest Dissertation Abstracts International and any successor or related index and/or finding products or services.

**ProQuest Publishing Program—Election and Elements.** The rights granted above shall be exercised according to the publishing option selected by Author in Section III, Author Options, and subject to the following additional Publishing Program requirements:

- **Redistribution of the Work.** Except as restricted by Author in the publishing option selected, the rights granted by Author automatically include (1) the right to allow sale and distribution of the Work, in whole or in part, by agents and distributors, and (2) the right to make the Abstract, bibliographic data and any meta data associated with the Work available to search engines and harvesters.
- **Restrictions.** ProQuest will use commercially reasonable efforts to restrict the distribution of the Work as provided under the publishing option selected by Author or as later elected by Author through direct contact with ProQuest. Such election is subject to Author's Degree Granting Institution Directives (see below). With respect to restrictions requested after submission of the Work, Author acknowledges that ProQuest cannot recall or amend previously distributed versions of the Work.
- **Removal of Work from the Program.** ProQuest may elect not to distribute the Work if it believes that all necessary rights of third parties have not been secured. Refer to the website <http://www.proquest.com/go/dissertation> for information about copyright and your dissertation or thesis. If Author's degree is rescinded, and/or the degree-granting institution so directs, ProQuest will expunge the Work from its publishing program in accordance with its then current publishing policies.
- **Degree Granting Institution Directives.** Author is solely responsible for any conflict between policies and directions of Author's degree-granting institution, Author's choice of publishing model, and/or any restriction Author places on the use of the Work. For the avoidance of doubt, ProQuest is not responsible for access to the Work that is provided by Author's degree-granting institution through its library or institutional repository. Author must work directly with Author's degree granting institution to ensure application of any restrictions to access relating to the Work by Author's degree granting institution.

**Copyright and Deposit with the Library of Congress.** At Author's option and upon payment of the applicable fee, ProQuest will

submit an application for registration of **Author's copyright** in the Work in Author's name. In addition, regardless of whether copyright registration of the Work is sought, ProQuest may make a copy of the Work available to the Library of Congress in digital, microform or other format as required by the Library of Congress.

**Publishing Fees and Royalties.** Author shall remit the publishing fees and the optional copyright registration fees as appropriate for the publishing option chosen by Author, and as specified by Author's degree-granting institution. Except as provided under the Traditional Publishing option, no royalties shall be due from ProQuest to Author.

**Delivery of the Work.** Author shall provide to ProQuest the Work and all necessary supporting documents, according to the Instructions accompanying this agreement.

**Rights Verification.** Author represents and warrants that Author is the copyright holder of the Work and has obtained all necessary rights to permit ProQuest to reproduce and distribute third party materials contained in any part of the Work, including all necessary licenses for any non-public, third party software necessary to access, display, and run or print the Work. Author is solely responsible and will indemnify ProQuest for any third party claims related to the Work as submitted for publication.

### Section II-A. Rights pursuant to Traditional Publishing

Author's election of Traditional as the Type of Publishing confirms Author's choice to have ProQuest publish the Work according to the Traditional Publishing option described below.

- **Traditional Publishing.** ProQuest may exercise the rights granted under Section I above including through the sale of individual copies of the Work in tangible or electronic media and/or as part of electronic database and reference products or services.
- **Publishing Fees and Royalties.** Author's payment of the dissertation or thesis publishing fee is a one-time, up-front fee. Author's institution may assess additional fees to be collected along with the publishing fee. ProQuest will pay royalties of 10% of its net revenue from sales of the Work, conditioned on Author maintaining a current address on record with ProQuest. Royalties will be paid when accrued earned royalties reach \$25.00. If, after 25 years, earned royalties do not accrue to at least \$25.00, ProQuest's royalty payment obligation will cease.

### Section II-B. Rights pursuant to Open Access Publishing Plus

Author's election of Open Access as the Type of Publishing confirms Author's choice to have ProQuest publish the Work according to the Open Access Publishing option described here.

- **Open Access Publishing Plus.** In addition to the rights granted under Section I of this ProQuest Publishing Agreement, ProQuest may reproduce, distribute, display and transmit the

Work in electronic format in the ProQuest Dissertations & Theses database, where it may be made available for free download. A subset of the ProQuest Dissertations & Theses database may be accessed by the academic community as well as through major search engines and open access harvesters. ProQuest may also provide an electronic copy of the Work to Author's degree-granting institution where it may also be posted for free open access. Learn more:

- Copy Sales. ProQuest and its agents and distributors may offer copies of the Work for sale in tangible media, including but not

limited to microform, print and CD-ROM, as well as electronic format individually or as part of its electronic database and reference products and services. No royalties shall be due to Author.

- Publishing Fees. Author's payment of the additional Open Access fee is a one-time, up-front fee in addition to the ProQuest dissertation or thesis publishing fee. Author's institution may assess additional fees to be collected along with the Open Access and publishing fees.

### **Section III. Publishing Options & Signature**

Select the publishing options below that best fit your interests and scholarly publishing obligations.

#### Traditional Publishing

- I want to make my work widely available and I want to be eligible to receive royalties on the sale of my work.
  - I understand that I must maintain a current mailing address with ProQuest in order to be eligible to receive royalties.
  - I understand that the ProQuest **fee for Traditional Publishing is \$25**, and that my graduate institution may pay all or a portion of the total fee as well as may require additional fees in association with my submission to ProQuest.

#### Open Access Publishing Plus

- I want the broadest possible dissemination of my work, and I want to provide free global access to the electronic copy of my work via the internet.
  - I understand that I will not be eligible to receive royalties.
  - I understand that the ProQuest **fee for Open Access Publishing Plus is \$120**, and that my graduate institution may pay all or a portion of the total fee as well as may require additional fees in association with my submission to ProQuest.

#### **Select Publishing Options**

##### I want my work to be available as soon as it is published.

- Yes
- No – I would like access to the full text of my Work to be delayed for the following period of time:
  - 6 month embargo
  - 1 year embargo
  - 2 year embargo

Note: Most institutions have *delayed release (embargo) policies*; please consult with your Graduate School/Program if you need to delay the release of your Work. Access to the full-text of your work will be delayed for the time period specified above, beginning from the date that we receive your manuscript at ProQuest. During this time, only your citation and abstract will appear in the ProQuest Dissertations & Theses database (PQDT).

##### I want major search engines (e.g. Google, Yahoo) to discover my work.

- Yes
- No

Learn more: <http://www.proquest.com/go/dissertations-google>

**Acknowledgment:** I have read, understand and agree to this ProQuest Publishing Agreement, including all rights and restrictions included within the publishing option chosen by me as indicated above.

REQUIRED Author's signature \_\_\_\_\_ Date \_\_\_\_\_

(Print Name) \_\_\_\_\_

Institution conferring degree \_\_\_\_\_

**This page must accompany your manuscript and the rest of the submission materials.**



# Copyright Registration Form—Optional

At ProQuest, we make copyright registration easy by submitting your application to the United States Office of Copyright on your behalf and providing you with the certificate from the Library of Congress. Registering your copyright via ProQuest is the fastest and most efficient method currently available.

## How to Take Advantage of Our Copyright Service

Registering with the U.S. Office of Copyright *establishes your claim* to the copyright for your dissertation and *provides certain protections if your copyright is violated*. If you wish, ProQuest will act on your behalf as your agent with the United States Copyright Office and apply for copyright registration as part of the publishing process. We will prepare an application in your name, submit your application fee, deposit the required copy or copies of the manuscript, and mail you the completed certificate of registration from the Library of Congress.

To take advantage of this service, please complete the information requested below and return this page along with the rest of your submission documents.

YES; I want ProQuest to handle the application for registration of my claim to copyright, and am providing the necessary information as follows:

The fee for this service is \$55.00, including the filing fee set by the U.S. Copyright Office, and is subject to change.

I hereby request and authorize ProQuest to submit an application for registration of my copyright in the Work in my name. I will receive the registration confirmation directly from the U.S. Office of Copyright.

---

Author's signature

Date

(Indicate one):

I have NOT  previously registered my published dissertation/thesis, or an earlier version of the manuscript with the U.S. Office of Copyright.

I HAVE  previously registered my published dissertation/thesis, or an earlier version of the manuscript with the U.S. Office of Copyright. The previous registration was made by \_\_\_\_\_

That registration number is \_\_\_\_\_

Previous registration number \_\_\_\_\_

Institution conferring degree \_\_\_\_\_

**PUBLISHING FEE AND COPYRIGHT REGISTRATION FEE must be paid by check or money order.**

**Check/Money Order payable to: ProQuest LLC**

**And mail to: Author/School Relations, ProQuest, PO Box 1346, Ann Arbor, MI 48106-1346**

**RETURN THIS PAGE WITH THE REST OF YOUR SUBMISSION MATERIALS  
IF YOU WANT PROQUEST TO FILE YOUR CLAIM TO COPYRIGHT.**

## Subject Categories 2016-2017 Academic Year

The ProQuest Dissertations & Theses (PQDT) database and the ProQuest citation indices are arranged by subject categories. Please select the one category below that best describes your field of research or creative work. You may add one or two additional categories on your submission form that will also be associated with your work as secondary subjects.

## Arts, Business, Education, Humanities, and Social Sciences

### AREA, ETHNIC, AND GENDER STUDIES

African American studies	0296
African studies	0293
American studies	0323
Asian American studies	0343
Asian studies	0342
Baltic studies	0361
Black studies	0325
Canadian studies	0385
Caribbean studies	0432
Classical studies	0434
East European studies	0437
Ethnic studies	0631
European studies	0440
French Canadian culture	0482
Gender studies	0733
LGBTQ studies	0492
Hispanic American studies	0737
Holocaust studies	0507
Islamic studies	0512
Judaic studies	0751
Latin American studies	0550
Middle Eastern studies	0555
Native American studies	0740
Near Eastern studies	0559
North African studies	0560
Pacific Rim studies	0561
Regional studies	0604
Scandinavian studies	0613
Slavic studies	0614
South African studies	0654
South Asian studies	0638
Sub Saharan Africa studies	0639
Women's studies	0453

### BUSINESS

Accounting	0272
Arts management	0424
Banking	0770
Business administration	0310
Entrepreneurship	0429
Finance	0508
Management	0454
Marketing	0338
Sports management	0430

### COMMUNICATIONS AND INFORMATION SCIENCES

Communication	0459
Information science	0723
Journalism	0391
Library science	0399
Mass communication	0708
Technical communication	0643
Web studies	0646

### FINE AND PERFORMING ARTS

Art criticism	0365
Art history	0377
Cinematography	0435
Dance	0378
Design	0389
Fashion	0200
Film studies	0900
Fine arts	0357
Music	0413
Musical performances	0943
Performing arts	0641
Theater	0465
Theater history	0644

### ARCHITECTURE

Architecture	0729
Architectural engineering	0462
Landscape architecture	0390

### EDUCATION

Adult education	0516
Art education	0273
Bilingual education	0282
Business education	0688
Community college education	0275
Continuing education	0651
Curriculum development	0727
Early childhood education	0518
Education	0515
Education finance	0277
Education history	0520
Education policy	0458
Educational administration	0514
Educational evaluation	0443
Educational leadership	0449
Educational philosophy	0998
Educational psychology	0525
Educational sociology	0340
Educational technology	0710
Educational tests & measurements	0288
Elementary education	0524
English as a second language	0441
Foreign language education	0444
Gifted education	0445
Health education	0680
Higher education	0745
Higher education administration	0446
Home economics education	0278
Industrial arts education	0521
Instructional design	0447
Language arts	0279
Mathematics education	0280
Middle school education	0450
Multicultural education	0455
Music education	0522
Pedagogy	0456
Performing arts education	0457
Physical education	0523
Reading instruction	0535
Religious education	0527
School counseling	0519
Science education	0714
Secondary education	0533
Social sciences education	0534
Special education	0529
Teacher education	0530
Vocational education	0747

**HISTORY**

African history	0331
American history	0337
Ancient history	0579
Asian history	0332
Black history	0328
Canadian history	0334
European history	0335
History	0578
History of Oceania	0504
Latin American history	0336
Medieval history	0581
Middle Eastern history	0333
Military history	0722
Modern history	0582
Russian history	0724
Science history	0585
World history	0506

**LAW AND LEGAL STUDIES**

Alternative dispute resolution	0649
Intellectual property	0513
International law	0616
Law	0398
Patent law	0562

**INTERDISCIPLINARY**

Alternative energy	0363
Biographies	0304
Climate change	0404
Cultural resources management	0436
Energy	0791
Food science	0359
Home economics	0386
Information technology	0489
Multimedia communications	0558
Museum studies	0730
Sustainability	0640
Textile research	0994
Wood sciences	0746

**LANGUAGE AND LITERATURE**

African literature	0316
American literature	0591
Ancient languages	0289
Asian literature	0305
Australian literature	0356
Canadian literature	0352
Caribbean literature	0360
Classical literature	0294
Comparative literature	0295
Creative writing	0203
English literature	0593
French Canadian literature	0355
German literature	0311
Icelandic & Scandinavian literature	0362
Language	0679
Latin American literature	0312
Linguistics	0290
Literature	0401
Medieval literature	0297
Middle Eastern literature	0315
Modern language	0291
Modern literature	0298
Rhetoric	0681
Romance literature	0313
Slavic literature	0314

**SOCIAL SCIENCES**

Archaeology	0324
Area planning and development	0341
Commerce-Business	0505
Criminology	0627
Cultural anthropology	0326
Demography	0938
Economic history	0509
Economic theory	0511
Economics	0501
Folklore	0358
Forensic anthropology	0339
Geography	0366
Individual & family studies	0628
International relations	0601
Labor economics	0510
Labor relations	0629
Military studies	0750
Organization theory	0635
Organizational behavior	0703
Peace studies	0563
Physical anthropology	0327
Political Science	0615
Public administration	0617
Public policy	0630
Recreation	0814
Social research	0344
Social structure	0700
Social work	0452
Sociolinguistics	0636
Sociology	0626
Transportation	0709
Urban planning	0999

**PHILOSOPHY AND RELIGION**

Aesthetics	0650
Biblical studies	0321
Canon law	0375
Clergy	0319
Comparative religion	0618
Divinity	0376
Epistemology	0393
Ethics	0394
Logic	0395
Metaphysics	0396
Pastoral counseling	0397
Philosophy	0422
Philosophy of religion	0322
Philosophy of science	0402
Religion	0318
Religious history	0320
Spirituality	0647
Theology	0469

# Behavioral, Natural, and Physical Sciences

## AGRICULTURE

Agriculture	0473
Agriculture economics	0503
Agriculture education	0517
Agriculture engineering	0539
Agronomy	0285
Animal diseases	0476
Animal sciences	0475
Aquatic sciences	0792
Forestry	0478
Horticulture	0471
Plant pathology	0480
Plant sciences	0479
Range management	0777
Soil sciences	0481
Urban forestry	0281
Wildlife management	0286

## BEHAVIORAL SCIENCES

Behavioral psychology	0384
Behavioral sciences	0602
Clinical psychology	0622
Cognitive psychology	0633
Counseling psychology	0603
Developmental psychology	0620
Experimental psychology	0623
Occupational psychology	0624
Personality psychology	0625
Physiological psychology	0989
Psychobiology	0349
Psychology	0621
Quantitative psychology	0632
Social psychology	0451

## BIOLOGICAL SCIENCES

Biochemistry	0487
Bioinformatics	0715
Biology	0306
Biomechanics	0648
Biophysics	0786
Biostatistics	0308
Botany	0309
Cellular biology	0379
Developmental biology	0758
Endocrinology	0409
Entomology	0353
Evolution & development	0412
Genetics	0369
Histology	0414
Limnology	0793
Microbiology	0410
Molecular biology	0307
Morphology	0287
Neurosciences	0317
Parasitology	0718
Physiology	0719
Systematic biology	0423
Virology	0720
Zoology	0472

## ECOSYSTEM SCIENCES

Ecology	0329
Macroecology	0420
Paleoecology	0426

## ENGINEERING

Aerospace engineering	0538
Artificial intelligence	0800
Automotive engineering	0540
Biomedical engineering	0541
Chemical engineering	0542
Civil engineering	0543
Computer engineering	0464
Computer science	0984
Electrical engineering	0544
Engineering	0537
Geological engineering	0466
Geophysical engineering	0467
Geotechnology	0428
Industrial engineering	0546
Mechanical engineering	0548
Mining	0551
Naval engineering	0468
Nanotechnology	0652
Nuclear engineering	0552
Ocean engineering	0547
Operations research	0796
Packaging	0549
Petroleum engineering	0765
Plastics	0795
Robotics	0771
System science	0790

## ENVIRONMENTAL SCIENCES

Conservation biology	0408
Environmental economics	0438
Environmental education	0442
Environmental engineering	0775
Environmental geology	0407
Environmental health	0470
Environmental justice	0619
Environmental law	0439
Environmental management	0474
Environmental philosophy	0392
Environmental science	0768
Environmental studies	0477
Land use planning	0536
Natural resource management	0528
Water resources management	0595
Wildlife conservation	0284

## GEOSCIENCES

Aeronomy	0367
Atmospheric chemistry	0371
Atmospheric sciences	0725
Biogeochemistry	0425
Biological oceanography	0416
Chemical oceanography	0403
Continental dynamics	0406
Geobiology	0483
Geochemistry	0996
Geographic information science and geodesy	0370
Geology	0372
Geomorphology	0484
Geophysics	0373
Hydrologic sciences	0388
Marine geology	0556
Meteorology	0557
Mineralogy	0411
Paleoclimate science	0653
Paleontology	0418
Petroleum geology	0583
Petrology	0584
Physical geography	0368
Physical oceanography	0415
Planetology	0590
Plate tectonics	0592
Remote sensing	0799
Sedimentary geology	0594

## HEALTH AND MEDICAL SCIENCES

Aging	0493
Alternative medicine	0496
Audiology	0300
Dentistry	0567
Epidemiology	0766
Gerontology	0351
Health care management	0769
Health sciences	0566
Immunology	0982
Kinesiology	0575
Medical ethics	0497
Medical imaging	0574
Medicine	0564
Mental health	0347
Nursing	0569
Nutrition	0570
Obstetrics	0380
Occupational safety	0354
Occupational therapy	0498
Oncology	0992
Ophthalmology	0381
Osteopathic medicine	0499
Pathology	0571
Pharmaceutical sciences	0572
Pharmacology	0419
Physical therapy	0382
Public health	0573
Public health education	0500
Speech therapy	0460
Surgery	0576
Toxicology	0383
Veterinary medicine	0778

**MATHEMATICAL AND  
PHYSICAL SCIENCES**

Acoustics	0986
Analytical chemistry	0486
Applied mathematics	0364
Astronomy	0606
Astrophysics	0596
Atomic physics	0748
Chemistry	0485
Condensed matter physics	0611
Electromagnetics	0607
High energy physics	0798
High temperature physics	0597
Inorganic chemistry	0488
Low temperature physics	0598
Materials science	0794
Mathematics	0405
Mechanics	0346
Molecular chemistry	0431
Molecular physics	0609
Nanoscience	0565
Nuclear chemistry	0738
Nuclear physics and radiation	0756
Optics	0752
Organic chemistry	0490
Physical chemistry	0494
Physics	0605
Plasma physics	0759
Polymer chemistry	0495
Quantum physics	0599
Statistics	0463
Theoretical mathematics	0642
Theoretical physics	0753

# UMI

## DOCTORAL DISSERTATIONS PUBLISH ABSTRACT ONLY AGREEMENT

INDICATE YOUR APPROVAL OF THIS AGREEMENT BY SIGNING ITEM #11

D (I)

PAO  
1998

ABSTRACT NO.

### PERSONAL DATA (Please type or print in block letters)

1. Last Name \_\_\_\_\_ First Name \_\_\_\_\_ Middle Name \_\_\_\_\_  
2. Year of Birth (optional) \_\_\_\_\_ 3. Country of citizenship \_\_\_\_\_  
4. Present Mailing Address  
  
Street Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip or Postal Code \_\_\_\_\_  
  
Future Mailing Address  
  
Street Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip or Postal Code \_\_\_\_\_  
Effective date for future mailing address (mm dd yy) \_\_\_\_\_  
Home telephone number (\_\_\_\_\_) \_\_\_\_\_  
E-mail address \_\_\_\_\_

DO NOT WRITE  
IN THIS SPACE

Vol/Issue \_\_\_\_\_

School Code \_\_\_\_\_

Advisor \_\_\_\_\_

Abstract Length \_\_\_\_\_

TP Date \_\_\_\_\_

### DOCTORAL DEGREE DATA

5. Full name of university conferring degree, and college or division if appropriate \_\_\_\_\_  
6. Abbreviation for degree awarded \_\_\_\_\_ 7. Year degree awarded \_\_\_\_\_

### TITLE/SUBJECT AREA

8. Attach a copy of your dissertation title page and abstract to this Agreement Form.  
9. Subject category for your dissertation. Enter four-digit code from "Subject Categories" list on opposite side.

### ABSTRACT REPRINT (all prices are in U.S. Dollars)

10. Please send \_\_\_\_\_ reprints of my abstract.  
(minimum order 100 copies)  
First set of 100 ..... \$ 35.00  
Additional sets of 100 @ \$15.00 per set ..... \$ \_\_\_\_\_  
Total ..... \$ \_\_\_\_\_  
10% shipping and handling ..... \$ \_\_\_\_\_  
TOTAL \$ \_\_\_\_\_

Please charge my:

American Express  Visa  Mastercard

Account No. \_\_\_\_\_

Expiration Date \_\_\_\_\_

Signature \_\_\_\_\_

(Authors, please note: Your account will not be charged until your copies have been shipped.)

This is an agreement between the author and UMI, Ann Arbor, Michigan, providing for the publication of an abstract (of not more than 350 words) of the dissertation in *Dissertation Abstracts International*, which is distributed on a subscription basis. Mathematical formulas, diagrams, and other illustrative materials are not recommended for the printed abstract.

11. I agree to the provisions of this agreement

Signature \_\_\_\_\_ Date \_\_\_\_\_

MD1528D 12/98

# SUBJECT CATEGORIES

*Dissertation Abstracts International* is arranged by subject categories. Please select the one subject which most nearly describes the content of your dissertation.

## THE HUMANITIES AND SOCIAL SCIENCES

### COMMUNICATIONS AND THE ARTS

Architecture .....	0729
Art History .....	0377
Cinema .....	0900
Dance .....	0378
Design and Decorative Arts .....	0389
Fine Arts .....	0357
Information Science .....	0723
Journalism .....	0391
Landscape Architecture .....	0390
Library Science .....	0399
Mass Communications .....	0708
Music .....	0413
Speech Communication .....	0459
Theater .....	0465

### EDUCATION

General.....	0515
Administration .....	0514
Adult and Continuing .....	0516
Agricultural .....	0517
Art .....	0273
Bilingual and Multicultural .....	0282
Business .....	0688
Community College .....	0275
Curriculum and Instruction .....	0727
Early Childhood .....	0518
Educational Psychology .....	0525
Elementary .....	0524
Educational Psychology .....	0525
Finance .....	0277
Guidance and Counseling .....	0519
Health .....	0680
Higher .....	0745
History of .....	0520
Home Economics .....	0278
Industrial .....	0521
Language and Literature .....	0279
Mathematics .....	0280

Music .....	0522
Philosophy of .....	0998
Physical .....	0523
Reading .....	0535
R eligious .....	0527
Sciences .....	0714
Secondary .....	0533
Social Sciences .....	0534
Sociology of .....	0340
Special .....	0529
Teacher Training .....	0530
Technology .....	0710
Tests and Measurements .....	0288
Vocational .....	0747

LANGUAGE, LITERATURE, AND LINGUISTICS	
Language	
General.....	0679
Ancient .....	0289
Linguistics .....	0290
Modern .....	0291
Rhetoric and Composition .....	0681
Literature	
General.....	0401
Classical .....	0294
Comparative .....	0295
Medieval .....	0297
Modern .....	0298
African .....	0316
American .....	0591
Asian .....	0305
Canadian (English) .....	0352
Canadian (French) .....	0355
Caribbean .....	0360
English .....	0593
Germanic .....	0311
Latin American .....	0312
Middle Eastern .....	0315

Romance .....	0313
Slavic and East European .....	0314

PHILOSOPHY, RELIGION, AND THEOLOGY	
Philosophy .....	0422
Religion .....	
General.....	0318
Biblical Studies .....	0321
Clergy .....	0319
History of .....	0320
Philosophy of .....	0322
Theology .....	0469

### SOCIAL SCIENCES

American Studies .....	0323
Anthropology	
Archaeology .....	0324
Cultural .....	0326
Physical .....	0327
Business Administration	
General.....	0310
Accounting .....	0272
Banking .....	0770
Management .....	0454
Marketing .....	0338
Canadian Studies .....	0385
Economics	
General.....	0501
Agricultural .....	0503
Commerce-Business .....	0505
Finance .....	0508
History .....	0509
Labor .....	0510
Theory .....	0511
Folklore .....	0358
Geography .....	0366
Gerontology .....	0351

History	
General.....	0578
Ancient .....	0579
Medieval .....	0581
Modern .....	0582
Black .....	0328
Church .....	0330
African .....	0331
Asia, Australia, and Oceania .....	0332
Canadian .....	0334
European .....	0335
Latin American .....	0336
Middle Eastern .....	0333
United States .....	0337

History of Science .....	0585
Law .....	0398
Political Science	
General.....	0615
International Law and Relations .....	0616
Public Administration .....	0617
Recreation .....	0814
Social Work .....	0452
Sociology	
General.....	0626
Criminology and Penology .....	0627
Demography .....	0938
Ethnic and Racial Studies .....	0631
Individual and Family Studies .....	0628
Industrial and Labor Relations .....	0629
Public and Social Welfare .....	0630
Social Structure and Development .....	0700
Theory and Methods .....	0344
Transportation .....	0709
Urban and Regional Planning .....	0999
Women's Studies .....	0453

## THE SCIENCES AND ENGINEERING

### BIOLOGICAL SCIENCES

Agriculture	
General.....	0473
Agronomy .....	0285
Animal Culture and Nutrition .....	0475
Animal Pathology .....	0476
Fisheries and Aquaculture .....	0792
Food Science and Technology .....	0359
Forestry and Wildlife .....	0478
Plant Culture .....	0479
Plant Pathology .....	0480
Soil Science .....	0481
Range Management .....	0777
Soil Science .....	0481
Wood Technology .....	0746

Environmental Sciences .....	0768
Geochemistry .....	0996
Geodesy .....	0370
Geology .....	0372
Geophysics .....	0373
Hydrology .....	0388
Mineralogy .....	0411
Paleobotany .....	0345
Paleoecology .....	0426
Paleontology .....	0418
Paleozoology .....	0985
Palynology .....	0427
Physical Geography .....	0368
Physical Oceanography .....	0415

Rehabilitation and Therapy .....	0382
Speech Pathology .....	0460
Toxicology .....	0383

Home Economics .....	0386
----------------------	------

### HEALTH SCIENCES

Health Sciences	
General.....	0566
Audiology .....	0300
Dentistry .....	0567
Education .....	0350
Health Care Management .....	0769
Human Development .....	0758
Immunology .....	0982
Medicine and Surgery .....	0564
Mental Health .....	0347
Nursing .....	0569
Nutrition .....	0570
Obstetrics and Gynecology .....	0380
Occupational Health and Safety .....	0354
Oncology .....	0992
Ophthalmology .....	0381
Pathology .....	0571
Pharmacology .....	0419
Pharmacy .....	0572
Public Health .....	0573
Radiology .....	0574
Recreation .....	0575

Pure Sciences	
Chemistry	
General.....	0485
Agricultural .....	0749
Analytical .....	0486
Biochemistry .....	0487
Inorganic .....	0488
Nuclear .....	0738
Organic .....	0490
Pharmaceutical .....	0491
Physical .....	0494
Polymer .....	0495
Radiation .....	0754
Mathematics .....	0405
Physics	
General.....	0605
Acoustics .....	0986
Astronomy and Astrophysics .....	0606
Atmospheric Science .....	0608
Atomic .....	0748
Condensed Matter .....	0611
Electricity and Magnetism .....	0607
Elementary Particles and High Energy .....	0798
Fluid and Plasma .....	0759
Molecular .....	0609
Nuclear .....	0610
Optics .....	0752
Radiation .....	0756
Statistics .....	0463

### Applied Sciences

Applied Mechanics .....	0346
Computer Science .....	0984

### Engineering

General.....	0537
Aerospace .....	0538
Agricultural .....	0539
Automotive .....	0540
Biomedical .....	0541
Chemical .....	0542
Civil .....	0543
Electronics and Electrical .....	0544
Environmental .....	0775
Industrial .....	0546
Marine and Ocean .....	0547
Materials Science .....	0794
Mechanical .....	0548
Metallurgy .....	0743
Mining .....	0551
Nuclear .....	0552
Packaging .....	0549
Petroleum .....	0765
Sanitary and Municipal .....	0554
System Science .....	0790
Geotechnology .....	0428
Operations Research .....	0796
Plastics Technology .....	0795
Textile Technology .....	0994

### PSYCHOLOGY

General.....	0621
Behavioral .....	0384
Clinical .....	0622
Cognitive .....	0633
Developmental .....	0620
Experimental .....	0623
Industrial .....	0624
Personality .....	0625
Physiological .....	0989
Psychobiology .....	0349
Psychometrics .....	0632
Social .....	0451

### EARTH AND ENVIRONMENTAL SCIENCES

Biogeochemistry .....	0425
-----------------------	------

A Bell & Howell Company  
 300 North Zeeb Road  
 PO Box 1346  
 Ann Arbor, MI 48106-1346 USA  
 800-521-0600, ext. 7020

