University of Pittsburgh

GRADUATE AND PROFESSIONAL BULLETIN
2000 • 2003
USING THIS BULLETIN

Students who are interested in or accepted to any of the University of Pittsburgh’s graduate or professional programs other than those leading to the first-professional degrees offered by the University (MD, JD, LLM, PharmD, or DMD) will find useful most of the sections of this bulletin. Descriptions of the University, its regulations, and its services are included in the sections prior to the program-specific information in the Schools, Departments, and Programs section of the bulletin.

Students interested in first-professional programs (MD, JD, LLM, PharmD, or DMD) can ignore much of the bulletin prior to the First-Professional Programs section, but should familiarize themselves with the general information on the University, as well as the section on Campus Facilities & Student Services, and the University-wide policies detailed in Rights and Responsibilities. The Schools of Medicine, Law, Dental Medicine, and Pharmacy appear in the Schools, Departments, and Programs section for programs leading to the graduate and professional advanced degrees as well as in the First-Professional Programs section since these schools offer both types of programs. Faculty are listed by their department or program at the end of the school.

Students should note that the listings of requirements and procedures for admissions, registration, and other information listed in the sections prior to the more program-specific information provided in the Schools, Departments, and Programs section of this bulletin represent the minimum requirements and basic procedures. Students should consult the information on their specific school, program, and department for detail on additional or stricter requirements and procedures.
TABLE OF CONTENTS

THE UNIVERSITY OF PITTSBURGH ................................................. 1

About the University ............................................................... 1
   History .................................................................................. 1
   Accreditation ....................................................................... 1
   Academic Organization and Pittsburgh Campus Overview .... 1
   Organization of Graduate and Professional Education at the University ............................................. 2

APPLICATION FOR ADMISSION .................................................. 3

Graduate Admissions ............................................................... 3
   Application Procedures ....................................................... 3
   Application Deadlines .......................................................... 3

Graduate Admissions of International Students ...................... 3
   International Student Application Deadlines and Application Fee ......................................................... 3
   International Student Academic Background and Credentials ........................................................... 3
   English Language Proficiency Requirements ......................................................................................... 4
   English Language Fluency for Teaching Assistants/Fellows ................................................................. 4
   Financial Support and Visa Documents .................................................................................................. 4
   Additional International Student Requirements ....................................................................................... 4

Admissions Status ................................................................. 4
   Full Graduate Status ............................................................ 4
   Provisional Graduate Status ............................................... 5
   Special Status ..................................................................... 5
   Guarantees and Early Admission to Graduate and First-Professional Programs ........................................ 5
   Tuition Deposit .................................................................... 5
   Deferred Admission ........................................................... 5
   Readmission ....................................................................... 5
   Changing the Field of Graduate Study ..................................................................................................... 5

FINANCIAL ISSUES:
TUITION, FEES, LOANS, & SCHOLARSHIPS ................................ 6

Tuition .................................................................................... 6
   Tuition Deposit .................................................................... 6
   Full Tuition ......................................................................... 6
   Residency/Reduced Tuition .................................................. 6
      Eligibility for Reduced Tuition ........................................ 6
   Financial Obligation of Students ........................................ 6
   Fees ................................................................................... 6

Financial Aid ........................................................................... 7
   Teaching and Research Appointments ................................ 7
   Teaching Assistants (TA) ...................................................... 7
   Teaching Fellows (TF) .......................................................... 7
   Graduate Student Assistant (GSA) ...................................... 7
   Graduate Student Researcher (GSR) .................................... 7
   Fellowships and Traineeships ............................................. 7
   Scholarships ...................................................................... 7
   Stafford Loans .................................................................... 8
   Lifetime Learning Tax Credits .......................................... 8

Deferred Payments .................................................................. 8
   Aid Deferrals ...................................................................... 8
   Deferred Tuition Payment Plan .......................................... 8
   Payment ............................................................................. 8

CAMPUS FACILITIES & STUDENT SERVICES .................................. 9

Academic Resources ............................................................. 9
   University Library System .................................................. 9
   Barco Law Library .................................................................. 9
   Health Sciences Library System ......................................... 9
   Computing Services and Systems Development ................ 10
      Campus Computing Labs ............................................... 10
      Network Authorization Accounts ................................... 10
      Network Port Connectivity ............................................. 10
      Computer Consulting Services ...................................... 10
      Computer Sales and Digital Certification ......................... 10
      Computing Workshops and Training ................................. 10
      Network Services .......................................................... 10
   Research and Academic Support ........................................ 10
      Center for Biotechnology and Bioengineering .................. 10
      Center for Instructional Development & Distance Education (CIDDE) ............................................. 11
      Center for Philosophy of Science ..................................... 11
      English Language Institute ............................................. 11
      Institutional Review Board ............................................. 11
      Learning Research and Development Center (LRDC) ......... 11
      Learning Skills Center ..................................................... 11
      Office of Measurement and Evaluation of Teaching (OMET) .. 11
      Office of Research .......................................................... 11
      University Center for International Studies (UCIS) .......... 12
      University Center for Social and Urban Research (UCSUR) ... 12
      Writing Center ............................................................. 12
      Services for New Teaching Assistants ............................... 12

Housing ................................................................................. 12

Student Resources ............................................................... 13
   Affirmative Action ............................................................. 13
   Athletics ............................................................................. 13
   Book Centers ..................................................................... 13
   Child Care ......................................................................... 13
   Counseling Center ............................................................. 13
   Disability Resources and Services ..................................... 13
   Food Services ...................................................................... 13
   Health Care and Student Health Service ............................ 14
   ID Center .......................................................................... 14
   International Services ....................................................... 14
   Parking and Transportation ................................................ 14
   PITTS ARTS ..................................................................... 15
   Placement Service ............................................................. 15
   Public Safety ...................................................................... 15
   Sexual Assault Services ..................................................... 15
   Student Government .......................................................... 15
   Student Organizations ....................................................... 16
   Survival Skills and Ethics Program ........................................ 16
   Veterans Services ............................................................. 16
   William Pitt Union ............................................................. 16

GENERAL ACADEMIC REGULATIONS .......................................... 17

Advising ................................................................................. 17

Allowable Credits ............................................................... 17
   Acceptance of Transfer Credits ........................................ 17
   Course Work Acceptable as Graduate Credit .................... 17
   Credit by Course Examination ........................................ 17
Independent Study ................................................................. 38
Directed Study ........................................................................ 38
Transfer Credits ...................................................................... 38
Registration of Undergraduate Students for
Graduate Credit ...................................................................... 39
Statute of Limitations and Leaves of Absence ......................... 39
Advising and Placement .......................................................... 39
FAS Degree Requirements ...................................................... 39
Requirements for the MA, MS, and MFA Degrees ................... 39
Credit Requirements ................................................................ 40
Foreign Language Requirement .............................................. 40
Comprehensive Examination .................................................. 40
Thesis .................................................................................... 40
Application for Graduation ...................................................... 40
Graduation Certification ......................................................... 40
Requirements for the PhD Degree ........................................... 40
Credit Requirements ................................................................ 40
Course Requirements ............................................................. 40
Foreign Language and/or Other Tools of Research ..................... 40
Preliminary Examination ....................................................... 40
Comprehensive Examination .................................................. 40
Doctoral Committee ................................................................ 40
Admission to Candidacy for the PhD Degree ......................... 40
Dissertation ............................................................................ 41
Language of the Doctoral Dissertation ..................................... 41
Final Oral Examination ........................................................... 41
Multiple Degree Options ......................................................... 41
Department and Program Descriptions .................................... 42
Anthropology ........................................................................... 42
Contact Information ............................................................... 42
Admissions ............................................................................. 42
Financial Assistance ............................................................... 42
Degree Requirements ............................................................. 42
Requirements for the Master’s Degree ..................................... 42
Requirements for the PhD Degree ........................................... 43
Department Course Listings ..................................................... 45
Bioethics .................................................................................. 47
Contact Information ............................................................... 47
Research ................................................................................ 47
Facilities ............................................................................... 47
Other Opportunities .............................................................. 47
Admissions ............................................................................. 47
Financial Assistance ............................................................. 48
Degree Requirements ............................................................. 48
Requirements for the Master’s Degree ..................................... 48
Program Courses ................................................................. 48
Biological Sciences ............................................................... 48
Contact Information ............................................................... 49
Research .............................................................................. 49
Facilities ............................................................................... 49
Interdepartmental Programs .................................................... 49
Structural Biophysics ............................................................... 49
MD/PhD Program ................................................................. 49
Admissions ............................................................................ 49
Financial Assistance ............................................................. 50
Degree Requirements ............................................................. 50
Requirements for the Master’s Degree ..................................... 50
Requirements for the PhD Degree ........................................... 50
Course Listings ................................................................. 50
Chemistry ................................................................................ 52
Contact Information ............................................................... 52
Research .............................................................................. 52
Analytical Chemistry .............................................................. 52
Biological Chemistry .............................................................. 52
Inorganic Chemistry .............................................................. 52
Organic Chemistry ............................................................... 52
Physical Chemistry ............................................................... 52
Facilities ............................................................................... 52
Chemical Physics Program ..................................................... 52
Admissions ............................................................................ 52
Information for Newly Admitted Students ............................. 52
Degree Requirements ............................................................. 53
Requirements for the Master’s Degree ..................................... 53
Requirements for the PhD Degree ........................................... 53
Course Listings ................................................................. 53
Classics ................................................................................. 54
Contact Information ............................................................... 54
Research ............................................................................... 54
Facilities ............................................................................... 54
Program in Classics, Philosophy, and Ancient Science ............. 54
Admissions ............................................................................ 55
Financial Assistance ............................................................. 55
Degree Requirements ............................................................. 55
Requirements for the Master of Arts Degree .......................... 55
Requirements for the PhD Degree ........................................... 55
Course Listings ................................................................. 55
Communication ..................................................................... 57
Contact Information ............................................................... 57
Research ............................................................................... 57
Facilities ............................................................................... 57
Interdisciplinary Programs ....................................................... 57
Admissions ............................................................................ 58
Prerequisites for Graduate Study ............................................. 58
Financial Assistance ............................................................. 58
Degree Requirements ............................................................. 58
Requirements for the Master’s Degree ..................................... 58
Requirements for the PhD Degree ........................................... 58
Course Listings ................................................................. 58
Additional Course Offerings ................................................... 58
Computer Science ................................................................. 58
Contact Information ............................................................... 58
Research ............................................................................... 58
Facilities ............................................................................... 58
Interdisciplinary Programs ....................................................... 58
Admissions ............................................................................ 58
Prerequisites for Graduate Study ............................................. 58
Financial Assistance ............................................................. 58
Degree Requirements ............................................................. 58
Requirements for the Master’s Degree ..................................... 58
Specialized Master of Science Tracks ...................................... 58
Requirements for the PhD Degree ........................................... 58
Course Listings ................................................................. 59
Cultural Studies ................................................................. 61
Contact Information ............................................................... 61
Publications ........................................................................ 62
Admissions ............................................................................ 62
Financial Assistance ............................................................. 62
Requirements for the Master’s Certificate ............................... 62
Requirements for the Doctoral Certificate .............................. 62
Course Listings ................................................................. 62
East Asian Languages and Literatures .................................. 63
Contact Information ............................................................... 63
Admissions ............................................................................ 63
Financial Assistance ............................................................. 63
Faculty Advisory Committee .................................................. 63
Admission to the MA Program .............................................. 63
Admission to the MA/MBA Joint-Degree Program ........................................ 63
Degree Requirements .................................................................................. 64
Requirements for the MA Degree in East Asian Studies .................................. 64
Certificate in Asian Studies ......................................................................... 64
Course Listings ............................................................................................ 64

**Economics** .............................................................................................. 64
Contact Information .................................................................................... 65
Admissions ..................................................................................................... 65
Financial Assistance ..................................................................................... 65
Requirements for the Master’s Degree ......................................................... 65
Requirements for the PhD Degree ................................................................. 65
Course Listings ............................................................................................ 67

**English** .................................................................................................... 68
Contact Information .................................................................................... 68
Admissions ..................................................................................................... 68
Financial Assistance ..................................................................................... 68
Advising .......................................................................................................... 68
Degree Requirements .................................................................................... 68
Requirements for the Master’s Degree ......................................................... 68
Requirements for the PhD Degree ................................................................. 69
Course Listings ............................................................................................ 70

**Film Studies** ............................................................................................ 72
Contact Information .................................................................................... 72
Research ........................................................................................................ 72
Facilities ........................................................................................................ 73
Related Activities .......................................................................................... 73
Admissions ..................................................................................................... 73
Financial Assistance ..................................................................................... 73
Advising/Oversight ........................................................................................ 73
Requirements for the Master’s Certificate .................................................. 73
Requirements for the Doctoral Certificate .................................................. 73
Transfer Credits ............................................................................................ 74
Course Listings ............................................................................................ 74

**French and Italian Languages and Literatures** ........................................... 75
Contact Information .................................................................................... 75
Admissions ..................................................................................................... 75
Financial Assistance ..................................................................................... 75
Degree Requirements .................................................................................... 75
Requirements for the Master of Arts in French ............................................ 75
Requirements for the Master of Arts in Italian ............................................ 76
Requirements for the PhD Degree ................................................................. 76
Admission to Candidacy ................................................................................ 76
Course Listings ............................................................................................ 77

**Geology and Planetary Science** ................................................................. 78
Contact Information .................................................................................... 78
Research ........................................................................................................ 78
Facilities ........................................................................................................ 78
Admissions ..................................................................................................... 79
Financial Assistance ..................................................................................... 79
Degree Requirements .................................................................................... 79
Course Listings ............................................................................................ 80

**Germanic Languages and Literatures** ....................................................... 81
Contact Information .................................................................................... 81
Admissions ..................................................................................................... 81
Financial Assistance ..................................................................................... 81
Degree Requirements .................................................................................... 81
Course Listings ............................................................................................ 82

**Hispanic Languages and Literatures** ......................................................... 83
Contact Information .................................................................................... 83
Admissions ..................................................................................................... 83
Degree Requirements .................................................................................... 83
Requirements for the Master of Arts in Hispanic Languages and Literatures .................................................. 83
MA Program in Spanish with Certification for Teaching in Pennsylvania .................................................. 84
Requirements for the PhD Degree ................................................................. 84
Course Listings ............................................................................................ 84

**History** ...................................................................................................... 85
Contact Information .................................................................................... 85
Admissions ..................................................................................................... 85
Financial Assistance ..................................................................................... 86
Degree Requirements .................................................................................... 86
Requirements for the Master’s Degree ......................................................... 86
Requirements for the PhD Degree ................................................................. 86
Course Listings ............................................................................................ 87

**History of Art and Architecture** ............................................................... 88
Contact Information .................................................................................... 88
Research ........................................................................................................ 88
Facilities ........................................................................................................ 88
Admission to the MA program ..................................................................... 89
Admission to the PhD program .................................................................... 89
Financial Assistance ..................................................................................... 89
Degree Requirements .................................................................................... 89
Requirements for the Master’s Degree ......................................................... 89
Requirements for the PhD Degree ................................................................. 90
Course Listings ............................................................................................ 90

**History and Philosophy of Science** ......................................................... 92
Contact Information .................................................................................... 92
Research and Facilities ................................................................................ 92
Specialization in Early Modern Science .................................................... 93
Program in Classics, Philosophy, and Ancient Science .................................. 93
Related Activities ........................................................................................ 93
Admissions ..................................................................................................... 93
Financial Assistance ..................................................................................... 93
Degree Requirements .................................................................................... 93
Requirements for the Master’s Degree ......................................................... 93
Requirements for the PhD Degree ................................................................. 94
Course Listings ............................................................................................ 94

**Intelligent Systems Program** .................................................................... 95
Contact Information .................................................................................... 96
Research ........................................................................................................ 96
Computational Resources ............................................................................ 96
Admissions ..................................................................................................... 96
Financial Assistance ..................................................................................... 97
Degree Requirements .................................................................................... 97
Requirements for the Master’s Degree ......................................................... 97
Requirements for the PhD Degree ................................................................. 97
Course Requirements for Standard (Non-Medical Informatics) Track .......... 97
Master’s Thesis and Doctoral Dissertation Requirements ........................ 98
Requirements for Medical Informatics Track .............................................. 98
Course Listings ............................................................................................ 99

**Linguistics** ................................................................................................ 99
Contact Information .................................................................................... 99
Facilities ........................................................................................................ 99
English Language Institute .......................................................................... 99
Language Acquisition Institute .................................................................... 99
Language Laboratory .................................................................................... 99
**TABLE OF CONTENTS**

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admissions</td>
<td>100</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>100</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>100</td>
</tr>
<tr>
<td>Requirements for the Master's Degree</td>
<td>100</td>
</tr>
<tr>
<td>Course Requirements for Specialization in Applied Linguistics</td>
<td>100</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>101</td>
</tr>
<tr>
<td>Requirements for the Certificate in TESOL</td>
<td>101</td>
</tr>
<tr>
<td>Course Listings</td>
<td>101</td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td>102</td>
</tr>
<tr>
<td>Contact Information</td>
<td>102</td>
</tr>
<tr>
<td>Research</td>
<td>102</td>
</tr>
<tr>
<td>Facilities</td>
<td>102</td>
</tr>
<tr>
<td>Admissions</td>
<td>102</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>102</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>103</td>
</tr>
<tr>
<td>Requirements for the Master's Degree</td>
<td>103</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>103</td>
</tr>
<tr>
<td>Course Listings</td>
<td>103</td>
</tr>
<tr>
<td><strong>Medieval and Renaissance Studies</strong></td>
<td>104</td>
</tr>
<tr>
<td>Contact Information</td>
<td>104</td>
</tr>
<tr>
<td>Library Resources</td>
<td>104</td>
</tr>
<tr>
<td>Special Features</td>
<td>105</td>
</tr>
<tr>
<td>Admissions</td>
<td>105</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>105</td>
</tr>
<tr>
<td>Requirements for the Certificate</td>
<td>105</td>
</tr>
<tr>
<td>Course Listings</td>
<td>105</td>
</tr>
<tr>
<td><strong>Music</strong></td>
<td>105</td>
</tr>
<tr>
<td>Contact Information</td>
<td>105</td>
</tr>
<tr>
<td>Program in Composition and Theory</td>
<td>105</td>
</tr>
<tr>
<td>Program in Ethnomusicology</td>
<td>106</td>
</tr>
<tr>
<td>Program in Historical Musicology</td>
<td>106</td>
</tr>
<tr>
<td>Admissions</td>
<td>106</td>
</tr>
<tr>
<td>Application Deadlines</td>
<td>106</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>106</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>106</td>
</tr>
<tr>
<td>Requirements for the Master's Degree</td>
<td>107</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>107</td>
</tr>
<tr>
<td>Course Listings</td>
<td>108</td>
</tr>
<tr>
<td><strong>Neuroscience</strong></td>
<td>108</td>
</tr>
<tr>
<td>Contact Information</td>
<td>108</td>
</tr>
<tr>
<td>Research</td>
<td>109</td>
</tr>
<tr>
<td>Admissions</td>
<td>109</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>109</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>109</td>
</tr>
<tr>
<td><strong>Philosophy</strong></td>
<td>109</td>
</tr>
<tr>
<td>Contact Information</td>
<td>109</td>
</tr>
<tr>
<td>The Center for Philosophy of Science</td>
<td>110</td>
</tr>
<tr>
<td>Program in Classics, Philosophy, and Ancient Science</td>
<td>110</td>
</tr>
<tr>
<td>The Department of History and Philosophy of Science</td>
<td>110</td>
</tr>
<tr>
<td>Admissions</td>
<td>110</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>110</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>110</td>
</tr>
<tr>
<td>Requirements for the Master's Degree</td>
<td>110</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>110</td>
</tr>
<tr>
<td>Course Listings</td>
<td>111</td>
</tr>
<tr>
<td><strong>Physics and Astronomy</strong></td>
<td>112</td>
</tr>
<tr>
<td>Contact Information</td>
<td>112</td>
</tr>
<tr>
<td>Research</td>
<td>112</td>
</tr>
<tr>
<td>Facilities</td>
<td>113</td>
</tr>
<tr>
<td><strong>Admissions</strong></td>
<td>113</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>113</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>114</td>
</tr>
<tr>
<td>Requirements for the Master's Degree</td>
<td>114</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>114</td>
</tr>
<tr>
<td>Course Listings</td>
<td>114</td>
</tr>
<tr>
<td><strong>Political Science</strong></td>
<td>115</td>
</tr>
<tr>
<td>Contact Information</td>
<td>115</td>
</tr>
<tr>
<td>Admissions</td>
<td>115</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>115</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>115</td>
</tr>
<tr>
<td>Requirements for the Master's Degree</td>
<td>115</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>116</td>
</tr>
<tr>
<td>Course Listings</td>
<td>116</td>
</tr>
<tr>
<td><strong>Psychology</strong></td>
<td>119</td>
</tr>
<tr>
<td>Contact Information</td>
<td>119</td>
</tr>
<tr>
<td>Research</td>
<td>119</td>
</tr>
<tr>
<td>Facilities</td>
<td>119</td>
</tr>
<tr>
<td>Admissions</td>
<td>119</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>119</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>119</td>
</tr>
<tr>
<td>Requirements for the Master's Degree</td>
<td>119</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>119</td>
</tr>
<tr>
<td>Course Listings</td>
<td>120</td>
</tr>
<tr>
<td><strong>Religious Studies</strong></td>
<td>121</td>
</tr>
<tr>
<td>Contact Information</td>
<td>121</td>
</tr>
<tr>
<td>Admissions</td>
<td>121</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>121</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>122</td>
</tr>
<tr>
<td>Requirements for the Master's Degree</td>
<td>122</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>122</td>
</tr>
<tr>
<td>Course Listings</td>
<td>123</td>
</tr>
<tr>
<td><strong>Slavic Languages and Literatures</strong></td>
<td>125</td>
</tr>
<tr>
<td>Contact Information</td>
<td>125</td>
</tr>
<tr>
<td>Admissions</td>
<td>125</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>125</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>125</td>
</tr>
<tr>
<td>Requirements for the Master's Degree</td>
<td>125</td>
</tr>
<tr>
<td>Requirements for the PhD Program</td>
<td>126</td>
</tr>
<tr>
<td>Course Listings</td>
<td>127</td>
</tr>
<tr>
<td><strong>Sociology</strong></td>
<td>128</td>
</tr>
<tr>
<td>Contact Information</td>
<td>128</td>
</tr>
<tr>
<td>Facilities</td>
<td>128</td>
</tr>
<tr>
<td>Publications</td>
<td>128</td>
</tr>
<tr>
<td>Admissions</td>
<td>128</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>129</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>129</td>
</tr>
<tr>
<td>Requirements for the Master's Degree</td>
<td>129</td>
</tr>
<tr>
<td>Requirements for the PhD Program</td>
<td>129</td>
</tr>
<tr>
<td>Course Listings</td>
<td>129</td>
</tr>
<tr>
<td><strong>Statistics</strong></td>
<td>130</td>
</tr>
<tr>
<td>Contact Information</td>
<td>130</td>
</tr>
<tr>
<td>Research</td>
<td>130</td>
</tr>
<tr>
<td>Facilities</td>
<td>130</td>
</tr>
<tr>
<td>Admissions</td>
<td>130</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>131</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>131</td>
</tr>
<tr>
<td>Requirements for the Master's Degree</td>
<td>131</td>
</tr>
<tr>
<td>Requirements for the PhD Degree</td>
<td>131</td>
</tr>
<tr>
<td>Course Listings</td>
<td>131</td>
</tr>
</tbody>
</table>
Theatre Arts .................................................. 132
Contact Information ......................................... 132
Theatrical Production at the University ................. 132
Theatre Resources in Pittsburgh .......................... 132
Admissions ...................................................... 133
Financial Assistance ........................................ 133
Degree Requirements ....................................... 133
Requirements for the Master's Degree .................. 133
MA in Theatre Arts ........................................... 133
MFA in Theatre Arts ........................................ 133
Requirements for the PhD Degree ....................... 133
Course Listings ............................................... 133

Women's Studies ........................................... 134
Contact Information ......................................... 135
Certificate Program ......................................... 135
Directed Study ............................................... 135
Course Listings ............................................... 135

FAS Administration ........................................ 136
FAS Faculty ................................................... 136
Department of Africana Studies ............................ 136
Department of Anthropology ............................... 136
Department of Biological Sciences ....................... 137
Department of Chemistry .................................. 138
Department of Classics ..................................... 139
Department of Communication ............................ 139
Department of Computer Science ....................... 139
Department of East Asian Languages and Literatures 140
Department of Economics ................................ 140
Department of English ..................................... 140
Department of French and Italian Languages and Literatures 141
Department of Geology and Planetary Science ......... 142
Department of Germanic Languages and Literatures 143
Department of Hispanic Languages and Literatures 143
Department of History ..................................... 143
Department of History of Art and Architecture ........ 144
Department of History and Philosophy of Science .... 144
Department of Linguistics ................................ 144
Department of Mathematics .............................. 145
Department of Music ....................................... 145
Center for Neuroscience .................................. 146
Department of Philosophy ................................ 147
Department of Physics and Astronomy .................. 148
Department of Political Science ......................... 149
Department of Psychology ............................... 150
Department of Religious Studies ......................... 150
Department of Slavic Languages and Literatures ..... 151
Department of Sociology ................................ 151
Department of Statistics .................................. 151
Department of Studio Arts ................................ 151
Department of Theatre Arts .............................. 152

KATZ GRADUATE SCHOOL OF BUSINESS ......... 153
Contact Information ......................................... 153
Application Procedures .................................... 153
Degree Options ............................................. 153
Special Academic Opportunities ........................ 153
Graduation .................................................... 154

MBA Program Descriptions .............................. 154
Full-Time MBA Program .................................. 154
Part-Time/Evening MBA Program ...................... 158

MBA/Master of Science in the Management of Information Systems (MS-MIS) Program ........................................ 159
MBA/Master of International Business (MIB) ...................... 159
MBA/Master of Arts ........................................... 159
MBA/Master of Public and International Affairs (MPIA) ...................... 159
Master of Health Administration (MHA) and (MHA/MBA) ...................... 159
MBA/Joint Degree in Business and Law (MBA/JD) ...................... 159
Executive MBA .............................................. 160
International Executive MBA ......................... 160
MBA Course Listings ....................................... 160

Doctoral Program .......................................... 161
Contact Information ......................................... 161
Application Procedures .................................... 161
Financial Aid ................................................... 161
Sequence of Study .......................................... 162
Timeline to Graduation .................................... 162
Placement ....................................................... 162
Individual Program Design ............................... 162
Accounting ...................................................... 162
Artificial Intelligence ........................................ 163
Business Environment, Ethics, and Public Policy ....... 163
Finance .......................................................... 164
Information Systems ....................................... 164
Marketing ....................................................... 165
Operations and Decision Sciences ....................... 165
Organizational Behavior and Human Resource Management ...................... 165
Strategic Planning and Organizational Studies ......... 166
PhD Course Listings ....................................... 166

Katz Graduate School of Business Faculty .......... 167

SCHOOL OF DENTAL MEDICINE .................. 170
Contact Information ......................................... 170
Residency Training Programs .............................. 170
Admission Information ..................................... 170
Selection Process Criteria ................................ 171
Core Curriculum ............................................ 171
Advanced Education in General Dentistry .......... 171
Certificate in Dental Anesthesiology .................... 171
Dental Public Health ........................................ 172
MDS and Certificate Programs in Endodontics ....... 172
Maxillofacial Prosthetics .................................. 173
Oral and Maxillofacial Surgery ........................... 173
MDS and Orthodontics and Dentofacial Orthopedics 174
Advanced Pediatric Dentistry ............................ 174
MDS and Periodontics ..................................... 175
MDS and Prosthodontics .................................. 175

School of Dental Medicine Faculty .................... 175

SCHOOL OF EDUCATION .............................. 176
Contact Information ......................................... 176
Types of Programs Offered ............................... 176
Admission ..................................................... 176
Changing Programs Offered ............................. 178
Financial Assistance ...................................... 178
Advising ......................................................... 179
Teacher Education Regulations ......................... 179
### TABLE OF CONTENTS

- Master’s Degree Requirements ................................................................. 180
  - Common Requirements ......................................................................... 181
  - Quality Point Average/Academic Probation ........................................ 181
  - Statute of Limitations ........................................................................... 181
  - Plan of Studies ...................................................................................... 181
  - Master’s Comprehensive Examination ............................................... 182
  - Master’s Degree with Thesis ................................................................ 182
  - Master’s Degree with Thesis Equivalent ............................................. 182
  - Graduation Requirements ..................................................................... 183
- Doctoral Degree Requirements ............................................................... 183
  - Credit Requirements ............................................................................ 184
  - Statute of Limitations .......................................................................... 184
  - Doctoral Preliminary Examination ...................................................... 185
  - Advancement to Doctoral Study .......................................................... 185
  - Doctoral Comprehensive Examination ............................................... 185
  - Dissertation Overview .......................................................................... 186
  - Approval of Research with Human Subjects ...................................... 186
  - Advancement to Doctoral Candidacy .................................................. 186
  - Dissertation .......................................................................................... 186

- **Department of Administrative and Policy Studies** .................................. 187
  - Admission ............................................................................................ 187
  - School Leadership Development Program ........................................ 187
  - Higher Education Administration Program ........................................ 188
  - Social and Comparative Analysis in Education (SCAE) ............................ 188
  - Department of Administrative and Policy Studies Courses ...................... 188

- **Department of Health, Physical, and Recreation Education** ................. 190
  - Contact Information ............................................................................. 190
  - Admission ............................................................................................ 190
  - Degree Options .................................................................................... 190
  - Developmental Movement Program .................................................... 191
  - Exercise Physiology Program ................................................................ 191
  - Health Promotion and Education Program ........................................... 191
  - Sports Medicine Program .................................................................... 191
  - Department of Health, Physical, and Recreation Education Courses ....... 191

- **Department of Instruction and Learning** .............................................. 192
  - Admission ............................................................................................ 192
  - Cognitive Studies Program .................................................................... 192
  - Early Childhood Education Program .................................................... 193
  - Elementary Education Program ........................................................... 194
  - Reading Education Program .................................................................. 194
  - Secondary Education Program .............................................................. 195
    - English/Communications Education Specialization ........................... 195
    - Mathematics Education Specialization ............................................. 196
    - Science Education Specialization ..................................................... 196
    - Social Studies Education Specialization ........................................... 198
    - Foreign Language Education Specialization ...................................... 198
  - Special Education Program .................................................................... 199
    - Supervisor of Special Education ........................................................ 200
    - Special Education Doctoral Degrees .................................................. 200
    - Admission to Doctoral Programs in Special Education ...................... 200
    - Education of Deaf and Hard-of-Hearing Students Specialization .......... 200
    - Early Intervention for Children with Disabilities Specialization .......... 200
    - Mental and Physical Disabilities Specialization ................................ 201

- General Special Education ....................................................................... 202
- Vision Studies Specialization ................................................................... 202
- Department of Instruction and Learning Course Listings ......................... 202

- **Department of Psychology in Education** ............................................. 207
  - Child Development and Child Care (CD&CC) Program ......................... 207
    - Contact Information ............................................................................ 207
    - Admission Application Process ......................................................... 208
    - Financial Assistance .......................................................................... 208
    - Advising and Placement ...................................................................... 208
    - CD&CC Program Requirements ........................................................... 208
    - CD&CC Curriculum ............................................................................ 208
    - Specializations .................................................................................... 209
    - Child Development and Child Care Courses ....................................... 209
    - School Counseling Program ............................................................... 209
    - Admission to School Counseling Program ......................................... 209
    - School Counseling Degree and Certification Options ......................... 209
    - Developmental and Educational Psychology Program ....................... 210
    - Admission to Developmental and Educational Psychology Program .... 210
    - Research Methodology Program .......................................................... 210
    - Admission to Research Methodology Program .................................... 210
    - Research Methodology Program Degree Options ................................ 211
    - Department of Psychology in Education Courses ................................ 211

- **School of Education Faculty** .............................................................. 212
  - Department of Administrative and Policy Studies ................................ 212
  - Department of Health, Physical, and Recreation Education .................... 213
  - Department of Instruction and Learning ............................................... 213
  - Department of Psychology in Education ............................................. 215

- **SCHOOL OF ENGINEERING** ............................................................... 216
  - Contact Information ............................................................................. 216
  - Admissions ............................................................................................ 216
  - Financial Aid ........................................................................................ 217
  - Advisors ............................................................................................... 217
  - Responsibility for Academic Progress .................................................. 217
  - Master of Science Programs .................................................................. 217
  - Doctor of Philosophy Programs ............................................................ 218
    - Entrance to the PhD Program ............................................................. 218
    - Course and Dissertation Credit Requirements ................................... 218
    - Doctor of Philosophy Examinations .................................................... 218
    - Preliminary Examination (Qualifier) .................................................... 218
    - Comprehensive Examination ............................................................. 218
    - Final Oral Examination (Defense) ....................................................... 219
    - Admission to PhD Candidacy ............................................................. 219
    - Doctoral Committee ............................................................................ 219
    - PhD Dissertation .................................................................................. 219

- **Department of Bioengineering** ............................................................ 219
  - Contact Information ............................................................................. 219
  - Master of Science Programs .................................................................. 220
  - Doctor of Philosophy Program .............................................................. 220
  - Bioengineering Graduate Courses ....................................................... 220

- **Department of Chemical and Petroleum Engineering** ......................... 220
  - Contact Information ............................................................................. 221
  - Master of Science in Chemical Engineering (Research-Oriented Program) 221
    - Master of Science in Chemical Engineering (Professional Engineer Program) 221
    - Master of Science in Petroleum Engineering ....................................... 221
    - Dual Master’s Degree ........................................................................... 222
Doctor of Philosophy Degree ........................................ 222
Graduate Chemical Engineering Courses ..................... 223
Graduate Petroleum Engineering Courses ..................... 223

Civil and Environmental Engineering Department ........ 224
Graduate Regulations in Civil Engineering ..................... 224
Advising ................................................................. 224
Master of Science in Civil Engineering ......................... 224
Joint Master’s Degree ............................................... 224
Doctor of Philosophy Degree Requirements .................... 224
Graduate Civil Engineering Courses ............................. 225

Electrical Engineering Department ............................. 226
Graduate Student Support ............................................ 227
Joint Electrical Engineering-Mathematics
Master of Science Program ....................................... 227
Graduate Regulations in Electrical Engineering ............... 227
Master of Science in Electrical Engineering ................. 227
Doctor of Philosophy .................................................. 227
Graduate Electrical Engineering Courses ..................... 228

Industrial Engineering Department ......................... 228
Admission Requirements ............................................. 228
Master of Science in Industrial Engineering .................. 228
Doctoral Program in Industrial Engineering ................. 229
Graduate Industrial Engineering Courses .................... 229

Materials Science and Engineering Department .......... 230
Contact Information ................................................. 230
Master of Science Program ....................................... 230
Doctor of Philosophy Program .................................... 230
Graduate Materials Science and Engineering Courses .... 231

Mechanical Engineering Department ..................... 231
Departmental Regulations .......................................... 231
Admissions ............................................................. 231
Master of Science Program ....................................... 231
Dynamic Systems ...................................................... 231
Fluid Mechanics ....................................................... 232
Solid Mechanics Area .............................................. 232
Thermal Systems ..................................................... 232
Doctor of Philosophy Program ................................... 232
Graduate Mechanical Engineering Courses ................. 232

School of Engineering Faculty ................................. 233
Bioengineering Department .................................... 233
Chemical and Petroleum Engineering Department ....... 233
Civil and Environmental Engineering Department ........ 234
Electrical Engineering Department ........................... 234
Industrial Engineering Department .......................... 235
Materials Science and Engineering Department .......... 235
Mechanical Engineering Department ........................ 236

SCHOOL OF HEALTH AND REHABILITATION SCIENCES ................................. 237
Contact Information ................................................. 237
Admissions: Master's Degree Programs ....................... 237
Application Procedures ............................................ 238
Application Deadlines ............................................. 238
International Student Applicants ............................... 238
Academic Standards ................................................. 238
Maintenance of Active Status ..................................... 238
Readmission .......................................................... 238
Academic Probation .................................................. 238
Non-thesis Option .................................................... 238
Graduation Requirements ........................................ 238

Master of Arts and Master of Science Programs ............ 238
Clinical Dietetics/Nutrition ....................................... 239
Clinical Dietetics/Nutrition Curriculum ....................... 239
Thesis or Non-thesis Options ................................... 239
Required Courses .................................................. 239
Electives ............................................................... 239
Communication Science and Disorders:
Master’s Degree Program ....................................... 239
General Program Requirements ............................... 239
Master's Program in Speech-Language
Pathology ............................................................. 240
Master’s Program in Audiology ................................ 240
Health Information Systems .................................... 241
Health Care Supervision and Management (HSM) ....... 242
Occupational Therapy .............................................. 242
Physical Therapy ...................................................... 243
Admission Requirements ........................................... 243
Financial Assistance ............................................... 243
Basis for Plan of Study ............................................. 243
Comprehensive Examinations .................................. 243
Physical Therapy Curriculum .................................. 243
Rehabilitation Science And Technology ...................... 244
Admission Requirements ........................................... 245
RST Curriculum ...................................................... 245
Specialty Curriculum Pathways ................................. 245
Certificate Program in Assistive and
Rehabilitation Technology ....................................... 246

Doctor of Philosophy Programs ............................... 246
Residency and Registration Requirements .................... 246
Active Status ......................................................... 246
Probation and Dismissal .......................................... 246
Doctor of Philosophy in Communication Science
and Disorders ......................................................... 246
Admission Requirements ........................................... 247
Financial Assistance ............................................... 247
Program Requirements ........................................... 247
Doctor of Philosophy in Rehabilitation Science ............ 248
Admission Requirements ........................................... 248
Financial Assistance ............................................... 249
Program Requirements ........................................... 249
Transfer of Credits .................................................. 249
Core Areas ............................................................. 249
Academic Advisor .................................................... 249
Plan of Study .......................................................... 249
Preliminary Examination ......................................... 249
Doctoral Committee and Committee Chair ................. 250
Comprehensive Examination and Dissertation Proposal 250
Dissertation .......................................................... 250

Entry-Level Professional Programs:
MOT and MPT ...................................................... 250
Contact Information ................................................. 250
Master of Occupational Therapy (MOT) ..................... 251
Admission Requirements ........................................... 251
Application Process and Deadline ............................. 251
Admission Status .................................................... 252
Master of Occupational Therapy Curriculum ............. 252
Master of Occupational Therapy Course Listings ......... 252
SCHOOL OF NURSING ................................................................. 285
Mission ................................................................. 285
Contact Information ................................................. 285
Admission Process ................................................. 285
Master's Program Admission Criteria ......................... 285
Doctoral Program Admission Criteria ......................... 286
Readmission .......................................................... 286
Admission of Students from Other Countries ................. 286
Health Care Requirements ........................................ 287
Financial Assistance ................................................. 287
Academic Standards .................................................. 287
Advising and Placement ............................................ 288
General Degree Requirements .................................... 288
Application for Graduation ........................................ 288
Major and Degree Options ....................................... 288
Special Academic Opportunities/Programs ................. 289
Educational Resources ............................................. 290
Computer Resources .............................................. 290
Research Resources ................................................ 290
RN-MSN Option ..................................................... 290
RN-MSN Option Admission and Prerequisite Requirements ..................................................... 290

Master's Program Descriptions ........................................ 291
Core Courses: All Master's Programs ......................... 291
Elective Courses ..................................................... 291
Acute Care Nurse Practitioner (ACNP) Major ............... 291
Acute Care Nurse Practitioner Curriculum .................. 292
Acute Care Nurse Practitioner Course Listings ............. 292
Nurse Anesthesia Major .......................................... 292
Nurse Anesthesia Applicant Requirements .................. 292
Nurse Anesthesia Curriculum ................................... 292
Nurse Anesthesia Course Listings ................................ 293
Health Promotion and Development Major .................. 293
Family Nurse Practitioner (FNP) ............................... 293
Pediatric Nurse Practitioner (PNP) ............................. 294
PNP Applicant Requirements .................................... 294
Pediatric Nurse Practitioner Curriculum ..................... 294
Pediatric Nurse Practitioner Course Listings ............... 294
Women's Health Nurse Practitioner (WHNP) ............... 295
Women's Health Nurse Practitioner Curriculum .......... 295
Women's Health Nurse Practitioner Course Listings .... 295
Health and Community Systems Major ...................... 295
Psychiatric Primary Care Nurse Practitioner ................. 295
Nursing Administration .......................................... 296
Nursing Education .................................................. 297
Nursing Research ................................................... 298
Nursing Informatics ................................................ 298

Doctoral Program Description ...................................... 299
Admission to the Doctoral Program ............................. 299
Length of Program .................................................. 300
Sample Curriculum Design: Post-Master's to PhD Program 300
Preliminary and Comprehensive Examinations and Dissertation Overview ..................................... 300
Dissertation Committee .......................................... 300
Admission to Candidacy for the Doctoral Degree .......... 301
Residency Requirement .......................................... 301
Dissertation and Abstract ........................................ 301
Doctoral Program Course Listings ............................. 301

School of Nursing Faculty ............................................. 301

SCHOOL OF PHARMACY — GRADUATE (PHD/MS) PROGRAM .......... 304
Contact Information ................................................... 304
Admissions ............................................................. 304
Financial Assistance ............................................... 304
Academic Standards ............................................... 304
Degree Options ....................................................... 304
Special Academic Opportunities ............................... 304
Program Descriptions ............................................. 304

Master of Science in Pharmaceutical Sciences ............... 305
PhD in Pharmaceutical Sciences ................................. 305
Curriculum for PhD in Pharmaceutical Sciences .......... 305
Comprehensive Exam and Dissertation ....................... 305

Course Listings .......................................................... 306
School of Pharmacy Faculty ........................................ 306

GRADUATE SCHOOL OF PUBLIC HEALTH ......................... 307
Contact Information ................................................... 307
Admissions ............................................................. 307
General Admission Requirements for Degree Programs 308
Application Procedure: Degree Programs ................. 308
Application Procedure: Non-Degree Status Applicants .. 309
Financial Assistance ............................................... 309
Academic Standards ............................................... 309
Advising and Placement .......................................... 310
General Degree Requirements ................................... 310
General Requirements (all degrees) ............................ 310
GSPH Core Courses ............................................... 310
General Requirements for Master’s Degrees ................. 310
General Requirements for Doctoral Degrees ................ 311
Major and Degree Options ........................................ 311

Department of Biostatistics .......................................... 311
Contact Information ................................................... 311
Admissions ............................................................. 311
Financial Assistance ............................................... 312
Requirements for Master’s Degrees ......................... 312
Requirements for Doctoral Degrees ......................... 312

Department of Environmental and Occupational Health .... 312
Major Educational Areas and Programs ....................... 312
Research Programs .................................................... 313
Facilities ................................................................. 313
Contact Information ................................................... 313
Admission ............................................................... 313
Program Requirements ............................................. 313
Master of Science in Environmental Health Risk Assessment ....... 313
Certificate in Environmental Health Risk Assessment .... 314
Certificate in Radiation Health ................................. 314

Department of Epidemiology ......................................... 314
Major Educational Areas ............................................. 314
Research ................................................................. 314
Contact Information ................................................... 314
Admissions ............................................................. 314
Financial Assistance ............................................... 315
Program Requirements: Master’s and Doctorate Curricula .......... 315
### Department of Health Services Administration

| Affiliated Educational Certificate Programs | 316 |
| Certification in Public Health and Aging | 316 |
| Management of Nonprofit Organization Certification Program | 316 |
| Certificate in Women’s Studies | 317 |
| Certificate in Latin American Studies | 317 |
| Research Focus | 317 |
| Contact Information | 317 |
| Admission: MPH Applicants | 317 |
| Admission: MPH/PhD in Social Work Applicants | 317 |
| Admission: MHPE Applicants | 318 |
| Admission: MPH/JD Applicants | 318 |
| Admission: MHA, MHA/MBA, and MHA/MPH Applicants | 318 |
| Admission: DrPH Applicants | 318 |
| Financial Assistance | 318 |
| Requirements for Master’s Degrees | 318 |
| Master of Public Health (MPH) Requirements | 318 |
| MPH/JD Requirements | 318 |
| MPH/PhD in Social Work Requirements | 319 |
| MPH/MPA and MPH/MPIA Requirements | 319 |
| Master of Health Promotion and Education (MHPE) Requirements | 319 |
| Master of Health Administration (MHA) Requirements | 319 |
| Requirements for the Doctor of Public Health Program | 319 |
| Requirements for Certificate Programs | 319 |
| Certification in Public Health and Aging | 319 |
| Management of Nonprofit Organizations Certification Program | 319 |
| Certificate in Women’s Studies | 319 |
| Certificate in Latin American Studies | 319 |

### Department of Human Genetics

| Major Educational Areas and Programs | 319 |
| Human Genetics | 320 |
| Genetic Counseling | 320 |
| Research | 320 |
| Contact Information | 320 |
| Admission | 320 |
| Financial Assistance | 320 |
| Program Requirements | 320 |
| MS in Human Genetics Requirements | 320 |
| MS in Genetic Counseling Requirements | 321 |
| PhD Human Genetics Requirements | 321 |

### Department of Infectious Diseases and Microbiology (IDM)

| Contact Information | 321 |
| Admission | 321 |
| Early Admission into the PhD and MS Programs | 321 |
| Standard Admission into the PhD and MS Programs | 322 |
| Financial Assistance | 322 |
| Program Requirements | 322 |
| Requirements for Master’s and Doctoral Degrees | 322 |
| Requirements for PhD | 322 |
| DrPH Program Requirements | 322 |

### Master of Public and International Affairs (MPIA)

| Requirements for Masters of Public and International Affairs | 340 |
| Economic and Social Development Major (MPIA/ESD) | 340 |
| Human Resource Management in Development | 341 |
| Global Political Economy Major | 341 |
| Security and Intelligence Studies Major | 342 |
| MPIA Program Course Listings | 342 |

### Master of Public Administration (MPA)

| Requirements for the Master of Public Administration | 336 |
| Policy Research and Analysis (PRA) | 337 |
| Required courses | 337 |
| Public and Nonprofit Management (PNM) | 337 |
| Required courses | 337 |
| Urban and Regional Affairs (URA) | 337 |
| Required courses | 337 |
| Criminal Justice (CJ) Minor | 338 |
| Environmental Management and Policy (EMP) Minor | 338 |
| Nonprofit and Nongovernmental Organizations (NGO) Minor | 338 |
| Personnel and Labor Relations Minor | 338 |
| Requirements for the Certificate in Personnel and Labor Relations | 339 |
| MPA Program Course Listings | 339 |
### School of Social Work

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Reviews</td>
<td>344</td>
</tr>
<tr>
<td>Doctoral Core Courses</td>
<td>344</td>
</tr>
<tr>
<td>Other Courses</td>
<td>344</td>
</tr>
<tr>
<td>Language Requirements</td>
<td>344</td>
</tr>
<tr>
<td>Fields of Study</td>
<td>344</td>
</tr>
<tr>
<td>Policy Issue Area Field</td>
<td>344</td>
</tr>
<tr>
<td>Research and Technical Skills Field</td>
<td>344</td>
</tr>
<tr>
<td>Comprehensive Examinations</td>
<td>344</td>
</tr>
<tr>
<td>Dissertation</td>
<td>345</td>
</tr>
<tr>
<td>Colloquium</td>
<td>345</td>
</tr>
<tr>
<td>Defense</td>
<td>345</td>
</tr>
<tr>
<td>Doctoral Program Course Listing</td>
<td>345</td>
</tr>
<tr>
<td>Post-Master's Family Therapy Certificate</td>
<td>359</td>
</tr>
<tr>
<td>Post-Master's Employee Assistance Program</td>
<td>359</td>
</tr>
<tr>
<td>Program Certificate</td>
<td>359</td>
</tr>
<tr>
<td>Admission Requirements</td>
<td>359</td>
</tr>
<tr>
<td>Post-Master's Home and School Visitor Certification Program</td>
<td>360</td>
</tr>
<tr>
<td>Doctor of Philosophy Program</td>
<td>360</td>
</tr>
<tr>
<td>Admission to Doctoral Program</td>
<td>360</td>
</tr>
<tr>
<td>Program Transfer Credits</td>
<td>361</td>
</tr>
<tr>
<td>Financial Assistance for Doctoral Students</td>
<td>361</td>
</tr>
<tr>
<td>Doctoral Curriculum Objectives</td>
<td>361</td>
</tr>
<tr>
<td>Doctoral Requirements</td>
<td>361</td>
</tr>
<tr>
<td>Grades in Course Work</td>
<td>362</td>
</tr>
<tr>
<td>Program Flexibility and Individualization</td>
<td>362</td>
</tr>
<tr>
<td>Core Doctoral Curriculum</td>
<td>362</td>
</tr>
<tr>
<td>Interdisciplinary Components of Doctoral Curriculum</td>
<td>362</td>
</tr>
<tr>
<td>Specialization In Mental Health Services Research</td>
<td>362</td>
</tr>
<tr>
<td>CSWE Requirements for School of Social Work Faculty Positions</td>
<td>362</td>
</tr>
<tr>
<td>Comprehensive Examination</td>
<td>363</td>
</tr>
<tr>
<td>Doctoral Dissertation</td>
<td>363</td>
</tr>
<tr>
<td>PhD Courses</td>
<td>363</td>
</tr>
</tbody>
</table>

### School of Dental Medicine

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMD Program Requirements</td>
<td>383</td>
</tr>
<tr>
<td>Academic Standards: Professional/Ethical Conduct Statement For Students</td>
<td>383</td>
</tr>
<tr>
<td>Scholarships</td>
<td>382</td>
</tr>
<tr>
<td>Loans</td>
<td>382</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>382</td>
</tr>
<tr>
<td>Requirements for REES Certificates</td>
<td>377</td>
</tr>
<tr>
<td>REES Course List</td>
<td>377</td>
</tr>
</tbody>
</table>

### School of Social Work Faculty

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admissions</td>
<td>347</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>348</td>
</tr>
<tr>
<td>Academic Standards</td>
<td>349</td>
</tr>
<tr>
<td>NASW Code of Ethics</td>
<td>349</td>
</tr>
<tr>
<td>Advising</td>
<td>349</td>
</tr>
<tr>
<td>MSW and PhD Degree Requirements</td>
<td>350</td>
</tr>
<tr>
<td>Degree Options</td>
<td>350</td>
</tr>
<tr>
<td>MSW Joint and Cooperative Degree Programs</td>
<td>350</td>
</tr>
<tr>
<td>PhD Joint Degree Programs</td>
<td>351</td>
</tr>
<tr>
<td>Special Academic Opportunities</td>
<td>351</td>
</tr>
<tr>
<td>Master of Social Work</td>
<td>352</td>
</tr>
<tr>
<td>MSW Admissions Information</td>
<td>353</td>
</tr>
<tr>
<td>Financial Assistance for MSW Students</td>
<td>353</td>
</tr>
<tr>
<td>MSW Degree Requirements</td>
<td>353</td>
</tr>
<tr>
<td>MSW Academic Standards: Probation</td>
<td>353</td>
</tr>
<tr>
<td>Part-Time MSW Students</td>
<td>353</td>
</tr>
<tr>
<td>Advanced Standing and Exemptions for MSW Course Work</td>
<td>353</td>
</tr>
<tr>
<td>Organization of the MSW Curriculum</td>
<td>353</td>
</tr>
<tr>
<td>Foundation Curriculum</td>
<td>354</td>
</tr>
<tr>
<td>Concentration Curricula</td>
<td>354</td>
</tr>
<tr>
<td>Community Organization and Social Administration (COSA) Concentration</td>
<td>354</td>
</tr>
<tr>
<td>Direct Practice with Individuals, Families, and Groups Concentration</td>
<td>355</td>
</tr>
<tr>
<td>Direct Practice Certificate Programs</td>
<td>357</td>
</tr>
<tr>
<td>MSW Courses</td>
<td>358</td>
</tr>
<tr>
<td>Post-Master's Certificate Programs</td>
<td>359</td>
</tr>
<tr>
<td>Post-Master's Family Therapy Certificate</td>
<td>359</td>
</tr>
<tr>
<td>Admission Requirements</td>
<td>359</td>
</tr>
<tr>
<td>Post-Master's Employee Assistance Program</td>
<td>359</td>
</tr>
<tr>
<td>Program Certificate</td>
<td>359</td>
</tr>
<tr>
<td>Admission Requirements</td>
<td>360</td>
</tr>
<tr>
<td>Post-Master's Home and School Visitor Certification Program</td>
<td>360</td>
</tr>
<tr>
<td>Doctor of Philosophy Program</td>
<td>360</td>
</tr>
<tr>
<td>Admission to Doctoral Program</td>
<td>360</td>
</tr>
<tr>
<td>Program Transfer Credits</td>
<td>361</td>
</tr>
<tr>
<td>Financial Assistance for Doctoral Students</td>
<td>361</td>
</tr>
<tr>
<td>Doctoral Curriculum Objectives</td>
<td>361</td>
</tr>
<tr>
<td>Doctoral Requirements</td>
<td>361</td>
</tr>
<tr>
<td>Grades in Course Work</td>
<td>362</td>
</tr>
<tr>
<td>Program Flexibility and Individualization</td>
<td>362</td>
</tr>
<tr>
<td>Core Doctoral Curriculum</td>
<td>362</td>
</tr>
<tr>
<td>Interdisciplinary Components of Doctoral Curriculum</td>
<td>362</td>
</tr>
<tr>
<td>Specialization In Mental Health Services Research</td>
<td>362</td>
</tr>
<tr>
<td>CSWE Requirements for School of Social Work Faculty Positions</td>
<td>362</td>
</tr>
<tr>
<td>Comprehensive Examination</td>
<td>363</td>
</tr>
<tr>
<td>Doctoral Dissertation</td>
<td>363</td>
</tr>
<tr>
<td>PhD Courses</td>
<td>363</td>
</tr>
</tbody>
</table>

### School of Dental Medicine Faculty

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Information</td>
<td>365</td>
</tr>
<tr>
<td>Admission to Certificate Programs</td>
<td>365</td>
</tr>
<tr>
<td>Advising</td>
<td>365</td>
</tr>
<tr>
<td>Certificate Requirements</td>
<td>365</td>
</tr>
<tr>
<td>Major and Degree Options</td>
<td>365</td>
</tr>
<tr>
<td>Asian Studies Program</td>
<td>366</td>
</tr>
<tr>
<td>Asian Studies Certificate Requirements</td>
<td>366</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>366</td>
</tr>
<tr>
<td>Asian Studies Program — Graduate Course List</td>
<td>366</td>
</tr>
<tr>
<td>Latin American Studies</td>
<td>370</td>
</tr>
<tr>
<td>Admissions to Center for Latin American Studies</td>
<td>370</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>370</td>
</tr>
<tr>
<td>Requirements for Certificates</td>
<td>370</td>
</tr>
<tr>
<td>Graduate Certificate in Latin American Social and Public Policy</td>
<td>371</td>
</tr>
<tr>
<td>Center for Latin American Studies Course List</td>
<td>371</td>
</tr>
<tr>
<td>West European Studies</td>
<td>372</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>373</td>
</tr>
<tr>
<td>Requirements for the Certificate</td>
<td>373</td>
</tr>
<tr>
<td>West European Studies Course List</td>
<td>373</td>
</tr>
<tr>
<td>East European Studies, Russian Studies, and Soviet Studies</td>
<td>376</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>377</td>
</tr>
<tr>
<td>Requirements for REES Certificates</td>
<td>377</td>
</tr>
<tr>
<td>REES Course List</td>
<td>377</td>
</tr>
</tbody>
</table>

### University of Pittsburgh

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST-PROFESSIONAL PROGRAMS</td>
<td>380</td>
</tr>
<tr>
<td>Contact Information</td>
<td>381</td>
</tr>
<tr>
<td>Admissions Requirements</td>
<td>381</td>
</tr>
<tr>
<td>Selection of Students</td>
<td>382</td>
</tr>
<tr>
<td>Transfer Students</td>
<td>382</td>
</tr>
<tr>
<td>Scholarships</td>
<td>382</td>
</tr>
<tr>
<td>Loans</td>
<td>382</td>
</tr>
<tr>
<td>Asian Studies Program</td>
<td>383</td>
</tr>
<tr>
<td>Conduct Statement For Students</td>
<td>383</td>
</tr>
<tr>
<td>DMD Program Requirements</td>
<td>383</td>
</tr>
<tr>
<td>DMD Curriculum</td>
<td>383</td>
</tr>
</tbody>
</table>
THE UNIVERSITY OF PITTSBURGH

ABOUT THE UNIVERSITY

The University of Pittsburgh is an internationally respected center of learning and research, offering exceptional educational opportunities in the humanities, sciences, and professions. The University’s mission is to advance teaching, research, and public service. This tripartite commitment enables the University to serve others by:

- educating diverse students from the region, the nation, and the world;
- expanding the boundaries of knowledge, discovery, and technology; and
- enhancing quality of life in the western Pennsylvania region and beyond.

HISTORY

The University began in the Pennsylvania wilderness as the Pittsburgh Academy in 1787, the year the U.S. Constitution was adopted. Thirty-two years later, the Pittsburgh Academy became the Western University of Pittsburgh, and in 1908, the school changed its name to the University of Pittsburgh.

The recognition of graduate study at the University of Pittsburgh began with the awarding of Master of Arts degrees in 1836. By 1870, over 30 MA degrees had been awarded. These degrees were conferred for study beyond the Bachelor of Arts degree. In 1884, Chancellor Milton Goff set up a two-year professional study program leading to either a Master of Philosophy (predecessor of the Master of Science degree) or a Master of Arts degree and a three-year program leading to a Doctor of Philosophy degree. Before admission to these programs, each student was required to show proficiency in three areas of study. Both master’s and doctoral candidates were required to prepare and defend theses.

In 1906, new rules were formulated for graduate study, requiring students to be in residence and requiring the completion of one year of study or 30 credits for the master’s degree and three years or 90 credits for the doctoral degree. The catalogues of 1908 and 1909 announced the establishment of the Graduate School with five departments offering courses for the Doctor of Philosophy degree. These departments, plus five others, offered courses for the Master of Arts degree.

In 1910, a faculty committee drafted proposals, adopted by the board of trustees in 1913, making the Graduate School an independent administrative unit of the University and authorizing the selection of a Graduate Council. The Graduate School was grouped into three divisions (Humanities, Social Sciences, and Natural Sciences) in 1947. Until 1956, the administration of graduate study was the responsibility of the dean of the Graduate School and the Graduate Council. At that time, the individual schools and the three divisions were given direct administrative responsibility for their graduate programs in accord with the regulations established by the University Council on Graduate Study—formerly the Graduate Council. In 1968, the dean of the Graduate School retired from his administrative role, and the position he had held was discontinued. General responsibility for the University’s graduate programs was assigned to the provost pending reorganization of the University’s graduate structure. The University Council on Graduate Study, the University administration, and members of the Graduate Faculty cooperated in drafting a proposed reorganization of graduate study, which was approved by written ballot by the entire Graduate Faculty and, in turn, accepted by Chancellor Wesley Posvar. This organizational structure became effective July 1, 1971 and is still the official structure.

Thus, during the 200-plus year history of the University, graduate education has grown to encompass the Faculty of Arts and Sciences and all 13 of the professional schools, which share a commitment to meet the nation’s need for well-educated researchers, scholars, and leaders of professions and the tri-state region’s need for trained professionals.

A private institution for most of its past, the University of Pittsburgh became state-related in 1966, establishing a relationship with the Commonwealth of Pennsylvania that continues to benefit both partners. Today, as an elected member of the prestigious Association of American Universities, the University of Pittsburgh claims its place among the top public research universities in the nation.

ACCREDITATION

The University of Pittsburgh, including its four regional campuses, is accredited by the Middle States Association of Colleges and Schools’ Commission on Higher Education. In addition, schools, programs, and departments may be accredited by discipline-specific accrediting bodies. See Schools, Departments, and Programs section of this bulletin for this information.

ACADEMIC ORGANIZATION AND PITTSBURGH CAMPUS OVERVIEW

An independent, state-related, coeducational institution, the University of Pittsburgh’s Pittsburgh campus offers a multitude of degree-granting and other programs housed in 16 undergraduate, graduate, and professional schools. The University system includes the Pittsburgh campus and four regional campuses at Bradford, Greensburg, Johnstown, and Titusville; the regional campuses offer undergraduate programs only.

More than 90 buildings are located on the Pittsburgh campus, which covers 132 acres in the culturally rich Oakland neighborhood. At the heart of the campus stands a central landmark—the Cathedral of Learning, a 42-story Gothic tower, which is the tallest school building in the western hemisphere. The Cathedral contains the remarkable Nationality Rooms: 26 classrooms, each of them designed to reflect a distinct culture.

On the Pittsburgh campus, over 3,400 faculty serve 25,900 students, including 9,100 graduate and 16,800 undergraduate students. Alumni accomplishments range from managing Fortune 500 corporations, to writing best-selling novels, to unlocking the secrets of DNA...and more.

The University of Pittsburgh remains a place of enduring tradition and vitality, true to the work ethic of western Pennsylvania, rich in intellectual rigor, and committed to preparing students for their lives and careers.
WEB ADDRESS

For more information on the University of Pittsburgh, see the University’s Web site at http://www.pitt.edu/.

ORGANIZATION OF GRADUATE AND PROFESSIONAL EDUCATION AT THE UNIVERSITY

While the University Council on Graduate Study (http://www.pitt.edu/~graduate/ucgs.html), acting for the Graduate Faculty, develops minimum standards for graduate work throughout the University, the immediate responsibility for developing and administering graduate programs is assigned to the deans and Graduate Faculty members of the several schools and the Faculty of Arts and Sciences. This responsibility applies both to the traditional MA, MS, and PhD programs and to programs leading to advanced professional degrees, except for first-professional degrees (i.e., the MD, JD, LLM, PharmD, and DMD). The provost has responsibility for the general supervision of graduate and professional programs, including first-professional degree programs, throughout the University, giving leadership to the deans and faculties in maintaining high standards of instruction and research.

Faculty are appointed to the Graduate Faculty by the provost upon recommendation by the dean on the basis of an appraisal by the faculty of a department or other appropriate faculty group. Graduate Faculty are competent in graduate instruction and in supervision of student research at all levels and are active in advancing knowledge through their own research.
APPLICATION FOR ADMISSION

Graduate admissions to the University of Pittsburgh are handled by the particular graduate school or program; there is no central admissions office for graduate and professional schools at the University.

This section details only the University requirements and procedures for admission to the University. The Graduate Admissions Office of each school provides admissions information for prospective students to that school. Schools' admissions requirements are listed under the Schools, Departments, and Programs section of this bulletin.

The admissions information in this section is subject to change at any time. It is intended to serve only as a general source of information.

GRADUATE ADMISSIONS

Decisions regarding admission are based on an overall evaluation of all the credentials submitted by the candidate and in accord with the availability of faculty, facilities, and student support necessary to meet the applicant's expressed academic and research needs and interests. Many departments or programs have a limited number of places available. Interested students should refer to the Schools, Departments, and Programs section of this bulletin in addition to the general admission information provided here.

APPLICATION PROCEDURES

Students seeking admission should call or write for application forms and descriptive materials to the school or program of intended graduate study. In many cases, application materials are available online; prospective students are encouraged to check the Web site of their programs of interest. See Schools, Departments, and Programs sections of this bulletin for contact information.

Students should then return to the department or school the completed application forms and a check (not cash) for the application fee payable to the University of Pittsburgh. Generally, students applying online have the option of paying application fees online via credit card or by sending a check. The application fee is required of all applicants and is non-refundable; it does not apply toward the payment of tuition. The fee varies from school to school, so prospective students should refer to the information on the relevant school in the Schools, Departments, and Programs section of this bulletin for the specific application fee required or go to that school's or department's Web site.

Applicants must also request that the registrars of all undergraduate and any graduate schools attended send official transcripts of their records to the department or school of intended graduate study. In addition, many schools and departments require additional material. These materials may include any or all of the following: scores achieved on standardized examinations such as the Graduate Record Examination or the Graduate Management Admission Test, letters of recommendation, term papers written during previous study, evidence of work/life experience, evidence of motivation for graduate study, and a statement of career objectives. Applicants should arrange for a personal interview if requested by the department or school.

APPLICATION DEADLINES

See the Schools, Departments, and Programs sections of this bulletin for specific application deadlines, but note that students applying for fellowships and assistantships should file their applications at the earliest possible date. Applicants interested only in admission may be considered up to the deadline dates, but postponing applications may entail the risk that available spaces will be filled. Some programs admit students only for a particular term, so prospective students are encouraged to check with the school and program for specific admissions information.

GRADUATE ADMISSIONS OF INTERNATIONAL STUDENTS

Students from other countries should start the application process for admission nine to 12 months in advance of the date of intended enrollment and complete the process no less than three months before the registration date for the student's first term. Some schools may require even earlier applications. Applicants wanting to be considered for financial assistance must submit completed applications much earlier. Requests for application forms should be directed to the school in which the student wishes to enroll. All applicants should also take note of specific school and program requirements, such as the Graduate Record Examination (GRE scores). Specific requirements are listed in the Schools, Departments, and Programs section of this bulletin.

INTERNATIONAL STUDENT APPLICATION DEADLINES AND APPLICATION FEE

International students should contact the individual department or program to which they are applying to determine the required application deadlines for submitting a completed application, financial aid form, and application fee. Many programs have their application materials online via their Web sites. In general, international students should submit applications no less than three months before the term in which they want to begin taking classes. The deadlines and fees vary according to the school and program to which the student is applying. The fee must be submitted in the form of a check or money order made payable to the University of Pittsburgh. See the individual school's international application information in the Schools, Departments, and Programs section of this bulletin for details or go to the school's or department's Web site.

INTERNATIONAL STUDENT ACADEMIC BACKGROUND AND CREDENTIALS

The minimum requirement for admission to a graduate program is the completion of a bachelor's degree from an accredited institution in the United States or the completion of a level of education that the University of Pittsburgh deems comparable to a bachelor's degree from a regionally accredited U.S. institution.

Applicants are required to submit official original academic credentials. Official original academic credentials that are issued in a language other than English must be accompanied by a certified English translation. In addition, in cases where the grade reports, academic record, examination results, or transcript does not attest to the awarding of a degree or other academic qualification, a certified copy of the original certificate or diploma awarding the degree or qualification must be submitted. Certificates or diplomas that are
ENGLISH LANGUAGE PROFICIENCY REQUIREMENTS

Graduate students must possess sufficient proficiency in English to enable them to understand lectures, participate successfully in class discussion, and, in general, to be able to study without being hindered by language problems. To facilitate determination of proficiency, official results of the Test of English as a Foreign Language (TOEFL) are required if the applicant’s native language is not English; this applies even if English has been the medium of instruction. A minimum score of 550 or higher on the TOEFL is required for admission to graduate study (or a TOEFL score of 213 on the computer-based test).

All students with a TOEFL score less than 650 (or 280 on the computer-based test) may be required by the department, program, or school to take the Michigan Test of English Proficiency upon arrival. Based on the test results, students may be required by their academic department to take courses in English as a foreign language before registering for graduate courses or may be required to take one or two such English courses in addition to graduate courses.

Any student scoring over 650 on the paper-based test (over 280 on the computer-based test) is exempted from further testing. The requirement to submit the results of the TOEFL may be waived if the applicant has recently received a satisfactory score on other tests of English language proficiency or has recently earned a degree from a regionally accredited institution in the United States.

The Educational Testing Service administers the TOEFL test at testing centers throughout the world. Students may take the test either in a traditional paper format or on a computer. Further information, testing dates, and test applications are available directly from the Test of English as a Foreign Language, Box 6151, Princeton, New Jersey, 08541, USA or by contacting a U.S. Consulate, an office of the U.S. Information Agency, an office of the U.S. Educational Commission, or a binational center. Information about the TOEFL is also available on the World Wide Web at http://www.toefl.org/. Applicants seeking September enrollment must take the TOEFL no later than the preceding March.

International students who are non-native speakers of English can contact the English Language Institute (ELI) on the University of Pittsburgh campus for assistance in meeting English proficiency requirements and taking the TOEFL. See the Campus Facilities & Student Services section of this bulletin, page 9, for more information on the ELI.

ENGLISH LANGUAGE FLUENCY FOR TEACHING ASSISTANTS/ FELLOWS

Teaching assistants (TAs) and teaching fellows (TFs) who are non-native speakers of English must be evaluated through a test designed to assess spoken English and English comprehension, approved by the Office of the Provost and administered by the English Language Institute (ELI). The Office of the Provost in consultation with ELI will establish minimum scores acceptable to permit a TA/TF to teach. Individual academic centers or departments may require higher scores than the established University minimums. All TAs/TFs with unsatisfactory scores on this test will be given non-teaching assignments and are required to take special course work until they attain a passing score. An unsatisfactory score at the time of reappointment is sufficient cause for nonrenewal of the student’s TA/ TF appointment. See relevant school section in Schools, Departments, and Programs for more details.

FINANCIAL SUPPORT AND VISA DOCUMENTS

While admission decisions are not based on financial support information, all applicants who are not U.S. citizens or Permanent Residents must submit a Financial Support Statement with their applications, even if applying for financial aid from the department. An award may not cover the entire cost of studies.

The Office of International Services cannot issue the document needed to apply for a student visa to enter the United States or to transfer non-immigrant status to the University of Pittsburgh until evidence of financial support adequate to cover the entire program of study has been submitted. Therefore, submission of a Financial Support Statement with an application will facilitate the issuance of a visa document.

ADDITIONAL INTERNATIONAL STUDENT REQUIREMENTS

The University of Pittsburgh reserves the right, even after arrival and enrollment, to make individual curricular adjustments whenever particular deficiencies or needs of a student are identified. In such instances, students may be required to take, at their own expense and without receiving credit, courses in English as a foreign language (see English Language Proficiency Requirements above) or courses prerequisite to their course of study to make up deficiencies.

It is strongly recommended that students arrive in Pittsburgh at least two weeks before the start of the term to allow sufficient time to make housing arrangements and take part in the orientation program conducted by the Office of International Services. In addition, the advising section of the Office of International Services, located in 708 William Pitt Union, offers assistance on a wide range of matters of concern to students from other countries. Call (412) 624-7120 or see http://www.pitt.edu/~osaweb/ois/oisinfo.html for more information.

ADMISSIONS STATUS

Admission may be granted or denied only by the dean of the school or his or her designee. However, non-immigrant students may be denied visa documents for non-academic reasons by the Office of International Services. Acceptable students are admitted to graduate study in a specific department or school with “full,” “provisional,” or “special” graduate status depending on their qualifications and objectives. The qualifications described below represent the minimum standards of the University. These may be made more stringent or specific at the option of the department or school.

FULL GRADUATE STATUS

For admission to full graduate status, an applicant must be a graduate of an accredited U.S. college or university and must be considered qualified for advanced study by the department or school. This normally is demonstrated by a B average (a quality point average of 3.00 on a 4.00 scale) or better in the total undergraduate program. (Note: the Faculty of Arts and Sciences requires a B average in the major field of study, and some of that school’s departments require higher levels of achievement.) If students with less than a B average present alternative evidence (such as completion of an advanced degree or successful relevant work experience) of superior ability, they may be considered for full graduate status on the recommendation of the department of proposed graduate study. Only students with full graduate status may take the PhD preliminary evaluation, take the
MA/MS or PhD comprehensive examination, be considered for the award of an advanced degree or certificate, or be graduated.

PROVISIONAL GRADUATE STATUS

Applicants who are graduates of a recognized college or university but who do not qualify for admission to full graduate status because of deficiencies in either their undergraduate program or their scholastic achievement may be considered for provisional graduate status if strong supporting evidence of their ability to complete a graduate program is provided. Courses taken to remove deficiencies do not contribute toward completion of graduate degree requirements. Transfer from provisional to full graduate status is initiated and recommended by the department and is possible only after removal of deficiencies and other conditions noted at the time of admission and satisfactory progress in graduate work.

A student on provisional or special status or on probation is not eligible to take the PhD preliminary evaluation, to take the MA/MS or PhD comprehensive examination, or to be graduated.

SPECIAL STATUS

Students may be granted temporary admission as “special status” under the following circumstances:

1. Students who are seeking advanced degrees but who are unable to meet the deadline for filing all required credentials for admission may be granted temporary admission provided they present acceptable evidence concerning their qualifications for graduate study. Regular admission must be accomplished within the first term of registration.

2. Students who are not seeking an advanced degree but who have specific qualifications for one or more courses, including courses required for learning or certification, may register for such courses subject to review by the department and the dean of the school. Schools providing such an opportunity may specify the number of credits or courses for which a student may enroll while in this status and should also clearly specify the limitations on transfer of such credits toward a graduate degree if the student is subsequently admitted to a graduate degree program.

See Schools, Departments, and Programs section for specific requirements connected to special status students.

GUARANTEES AND EARLY ADMISSION TO GRADUATE AND FIRST-PROFESSIONAL PROGRAMS

Undergraduate students receiving an academic merit scholarship who indicate certain professional programs (including communication science, dental medicine, education, law, medicine, physical therapy, and public and international affairs) as their intended field of study on the Freshman Application to the University of Pittsburgh will be automatically reviewed for guaranteed admission into that professional program. Early application is recommended, as spaces are limited.

Exceptionally able undergraduate University of Pittsburgh students may be admitted to full graduate status if their graduate and undergraduate schools have approved early admission as a permitted option and have established standards and procedures, and if the student needs no more than 24 credits to complete the baccalaureate degree. Credits earned while enrolled in the graduate program may also be counted toward fulfilling undergraduate degree requirements. See Schools, Departments, and Programs section for further information on the possibility of early admission to specific programs.

TUITION DEPOSIT

Once a student is admitted to a program, some of the graduate and professional schools at the University of Pittsburgh require a tuition deposit of $100 to $500 to secure the student's place in the incoming class. Students should refer to Financial Issues: Tuition, Fees, Loans, & Scholarships, page 6, or to the admissions information for their specific school to determine the amount required for the tuition deposit.

DEFERRED ADMISSION

If a department or school so approves, a student may defer admission for one year without having to complete any additional applications. If approved, the student is sent a new admission letter. Approval of a student’s request to defer admission does not necessarily mean that any financial aid awarded is also deferred. See Aid Deferrals, page 8, for more information on deferring financial aid.

READMISSION

A student who has not registered for at least one credit or full-time dissertation study during a 12-month period will be transferred automatically to inactive status and must file an application for readmission to graduate study (and pay the application fee) before being permitted to register again. Inactive students cannot apply to graduate, nor take preliminary or comprehensive exams. Readmission is not automatic nor does it necessarily reinstate the student to the academic status enjoyed prior to becoming inactive. When readmitted, the student must be prepared to demonstrate proper preparation to meet all current admission and degree requirements. Readmission is automatic, however, for students who receive prior approval for a formal leave of absence.

CHANGING THE FIELD OF GRADUATE STUDY

A student already admitted to graduate study and desiring to change a major department of graduate study must file an application for such a change in the office of the dean or the department of the school the student wishes to enter. The application for admission to the new department will be evaluated in the same manner as an application from a new student.
FINANCIAL ISSUES: TUITION, FEES, LOANS, & SCHOLARSHIPS

TUITION

TUITION DEPOSIT

Some graduate and professional schools at the University of Pittsburgh require tuition deposits to secure the admitted student’s place in the incoming class. These deposits are non-refundable and are applied toward the student’s first term tuition costs. The schools that require deposits and the specific amounts are as follows:

<table>
<thead>
<tr>
<th>School</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Katz Graduate School of Business</td>
<td></td>
</tr>
<tr>
<td>MBA Program</td>
<td>$200</td>
</tr>
<tr>
<td>PhD Program</td>
<td>$100</td>
</tr>
<tr>
<td>School of Dental Medicine</td>
<td>$500</td>
</tr>
<tr>
<td>School of Health and Rehabilitation Sciences*</td>
<td></td>
</tr>
<tr>
<td>MPT Program</td>
<td>$250</td>
</tr>
<tr>
<td>School of Information Sciences</td>
<td>$100</td>
</tr>
<tr>
<td>School of Law</td>
<td></td>
</tr>
<tr>
<td>Due April 15</td>
<td>$200</td>
</tr>
<tr>
<td>Due June 15</td>
<td>$300</td>
</tr>
<tr>
<td>School of Medicine</td>
<td>$100</td>
</tr>
<tr>
<td>School of Nursing (Anesthesia)</td>
<td>$250</td>
</tr>
<tr>
<td>Graduate School of Public and International Affairs</td>
<td>$200</td>
</tr>
<tr>
<td>Graduate School of Public Health</td>
<td>$100</td>
</tr>
</tbody>
</table>

* NOTE: The other programs in the School of Health and Rehabilitation Sciences (MA, MS, and PhD) do not require a tuition deposit.

FULL TUITION

Graduate students enrolled for nine to 15 credits during the Fall and Spring Terms are considered full-time and pay a flat tuition rate. Students enrolled for one to eight credits are considered part-time and pay for individual credits. Students enrolled in the Summer Term also pay for individual credits, regardless of how many credits are taken (The Katz Graduate School of Business is an exception: full-time MBA students pay a flat rate in the Summer Term). See Deferred Payments and Payment Adjustments sections below for information regarding tuition payment plans.

Tuition rates are school specific. Students pursuing two degrees or a degree and a certificate simultaneously must list one as the primary academic program and may list the other as a secondary academic program on the registration form; students are billed at the tuition rate of the primary academic program. Please refer to the tuition rate for the school in which you are enrolled. The University’s tuition chart is online at http://www.ba.pitt.edu/irweb/tuition/tuithmpg.htm.

RESIDENCY/REDUCED TUITION

Students who reside in the Commonwealth of Pennsylvania may be eligible for reduced tuition through state appropriations (see Eligibility for Reduced Tuition below). Eligibility is determined by criteria outlined in the University of Pittsburgh Guidelines for Determining Eligibility for Reduced Tuition Rates, available online at http://www.bc.pitt.edu/sfs/paycenter.htm#TF.

ELIGIBILITY FOR REDUCED TUITION

Assessment of full tuition or reduced tuition is based on whether the student is a permanent resident of the Commonwealth of Pennsylvania. Full tuition is charged to non-residents. A student who has lived in Pennsylvania for a continuous period of 12 months before enrollment in any institution of higher education in the state may be eligible for reduced tuition. The student must be a citizen of the United States or have an immigrant or permanent visa. For a student less than 21 years of age, both the student and parent(s) or legal guardian(s) must meet the residency requirements for eligibility.

FINANCIAL OBLIGATION OF STUDENTS

The University of Pittsburgh has the right to withhold services if a student defaults on any financial obligation until repayment arrangements have been made that are satisfactory to the office or department to which the debt is owed.

FEES

MANDATORY FEES

The following are mandatory fees assessed to students each term (current rates are available online at http://www.ba.pitt.edu/irweb/tuition/tuithmpg.htm):

- Student Activity Fee
- Student Health Fee
- Computer and Network Service Fee
- Security, Safety, and Transportation Fee

SPECIAL SERVICE FEES

These fees may be charged for University transactions that are processed beyond deadlines, due dates, and specified time limits.

COURSE FEES

Certain courses have fees associated with enrollment in the course. These courses are identified in the Schedule of Classes and Course Descriptions. The Schedule of Classes is online at http://www.pitt.edu/~srfsweb/crinPgCrsInfo.htm.

PROGRAM FEES

Certain graduate and first-professional programs have fees associated with enrollment in the program. These are typically fees for equipment or required insurance. See the Schools, Departments, and Programs section of this bulletin for more information.
FINANCIAL AID

Financial assistance for graduate students can be provided in the form of teaching and research appointments, fellowships, traineeships, tuition scholarships, and loans. The type of aid available depends on the school or program to which the student is admitted; students are encouraged to contact their school directly for more information about the types of financial assistance available. Admission to graduate study does not necessarily carry any implications concerning the award of financial aid.

TEACHING AND RESEARCH APPOINTMENTS

Students may receive financial support as teachers or researchers in their respective programs. In these positions, students are either teaching assistants (TAs), teaching fellows (TFs), graduate student assistants (GSAs), or graduate student researchers (GSRs). These appointments are generally for two terms at a time; guidelines covering these appointments and their current salary ranges are available through links from the University’s Graduate Studies Web page at http://www.pitt.edu/~graduate/. In recognition of academic merit, the University offers TA/TF/GSA/GSR scholarships including tuition, fees (excluding the student activity fee), and individual medical insurance coverage. TAs/TFs/GSAs and GSRs can also purchase family medical coverage (for spouse and/or dependent children) by paying the difference between the premium costs for the individual option and the family option.

The University’s policy concerning Teaching Assistants and Teaching Fellows, dealing with appointments, reappointments, terminations, benefits, and responsibilities, is contained in the University TA/TF/GSA Policy Statement, sent to all new Teaching Assistants. The University’s policy concerning Graduate Student Researchers is contained in the University GSR Policy Statement, sent to all new GSRs. The Teaching Assistant/Teaching Fellow/Graduate Student Assistant Policy Statement can also be found on page 28 of this bulletin under Rights and Responsibilities, and the University Graduate Student Researcher Policy Statement can be found on page 27.

Students receiving these academic appointments must follow the relevant University policies as they apply to faculty and staff of the University of Pittsburgh; see Rights and Responsibilities section of this bulletin for details. For more information on what teaching and research positions may be available in a given program, see the relevant information in Schools, Departments, and Programs.

TEACHING ASSISTANTS (TA)

Teaching Assistants (TAs) are graduate students who have not qualified for an appointment as a teaching fellow. The duties of a TA might include teaching recitation sections, monitoring quizzes, assisting in laboratory instruction, or participating in related activities involving undergraduate programs. Full appointments usually require approximately 20 assigned hours per week.

TEACHING FELLOWS (TF)

Teaching Fellows (TFs) are graduate students more educationally advanced or experienced than a TA, typically holding the equivalent of a master’s degree. The salaries for TFs are slightly higher than those for TAs. Full appointments usually require approximately 20 assigned hours per week.

GRADUATE STUDENT ASSISTANT (GSA)

Graduate Student Assistants (GSAs) are graduate students who perform duties to assist in the educational or research mission of the University, but do not teach classes, recitations, or labs. GSAs might assist a faculty member in library research, editorial duties, or similar academic tasks. Full appointments usually require approximately 20 assigned hours per week.

GRADUATE STUDENT RESEARCHER (GSR)

Research grants funded by government and private agencies provide a variety of full- and part-time research positions for graduate students. Most, but not all, of the GSR positions, which are also referred to as Graduate Research Assistants, are in projects that are directly related to the thesis or dissertation research of the student; all provide the student with valuable research training and experience.

FELLOWSHIPS AND TRAINEESHIPS

There are a variety of fellowships and traineeships available from the University of Pittsburgh and many other organizations that provide funding to students needing financial assistance and/or showing evidence of academic excellence. These awards may include a stipend, a tuition scholarship, health care coverage, or all three. Among the fellowships available from the University to students across a broad range of disciplines are the following:

PROVOST’S DEVELOPMENT FUND

This program is intended to provide financial support and development opportunities for women and disadvantaged students pursuing the doctorate or professional degree that would qualify them for an academic or administrative appointment. Financial assistance will be made available on the basis of need and merit. Any U.S. citizen or permanent resident who is enrolled in or admitted to a graduate program at the University is eligible. Ideally, the candidate would be in the advanced stages of the PhD program so that support for one year would complete the program. Applications are available from the Office of the Provost, 801 Cathedral of Learning, or online at http://www.pitt.edu/~cedeno/pdfapp99.html.

OWENS FELLOWSHIPS

A bequest of Samuel T. Owens Jr. makes fellowships available at the University of Pittsburgh for needy students who show promise of high academic achievement. These fellowships carry an annual stipend of $2,000. The fellowships may be used in payment of tuition, books, and living expenses during the academic year for which the award is granted. Owens Fellowships are not available for a single term. Application forms are available in the University Office of Admissions and Financial Aid, Masonic Temple, Pittsburgh, PA 15260, (412) 624-7488. The deadline for application is usually in April.

For more information on specific fellowships and traineeships available to students in a particular program, see the Schools, Departments, and Programs section of this bulletin.

SCHOLARSHIPS

Scholarships from the University of Pittsburgh are a form of merit- and need-based financial aid. Outside scholarships are also applied toward tuition and other mandatory educational expenses. Scholarships do not have to be repaid.
STAFFORD LOANS

Stafford Loans are long-term, low interest rate loan programs available to degree-seeking students enrolled on at least a half-time basis. The amount of the loan is dependent upon financial need, but for a graduate student it could be as high as $18,500 per academic year. While there is no deadline for applying, Stafford Loans can take as many as 60-90 days to be approved; therefore, students who intend to start graduate school in the Fall Term should start the loan process no later than May 15.

Financial aid application procedures are outlined in the University of Pittsburgh’s Financial Aid Booklet and online at http://www.pitt.edu/~oaaf. Information on Stafford Loans is available online at http://www.finaid.org/loans/studentloan.shtml, the University’s Graduate Admissions and Financial Aid site (http://www.pitt.edu/~graduate/admissions.html) includes links to loan information for graduate students.

LIFETIME LEARNING TAX CREDITS

Taxpayers are eligible to claim a non-refundable Lifetime Learning Credit against their federal income taxes for the qualified tuition and related expenses of students who are enrolled in eligible educational institutions. Through 2002, the amount that may be claimed as a credit is equal to 20 percent of the taxpayer’s first $5,000 of out-of-pocket qualified tuition and related expenses for all the students in the family. After 2002, the credit amount is equal to 20 percent of the taxpayer’s first $10,000 of out-of-pocket qualified tuition and related expenses. Qualified tuition and related expenses for graduate-level education are eligible for the Lifetime Learning Credit.

For more information on Lifetime Learning Credits, see http://www.ed.gov/INITS/HOPE/TAX_QUESTIONS/FAQs.html.

DEFERRED PAYMENTS

AID DEFERRALS

Once students have applied for and been notified of financial aid eligibility, they may defer payments by obtaining a Financial Aid Deferral form in the Office of Admissions and Financial Aid and then submitting the form to the Student Payment Center. Whether a deferral of aid is allowed is dependent upon the type of aid awarded.

DEFERRED TUITION PAYMENT PLAN

Students in good financial standing with the University and registered during the Fall, Spring, or Summer Terms for three or more credits are eligible to participate in a deferred tuition payment plan to pay current term charges in three installments. First-time participants in the plan must make these arrangements in person at the Student Payment Center. Thereafter, participants may elect a mail option.

There is a $20 fee each time a student sets up a payment plan, and an interest charge of 1% monthly on the unpaid principal is added to the remaining two installment payments. For more information on the deferred tuition payment plan, please contact the Student Payment Center via E-mail at payment@sfs.pitt.edu or online http://www.bc.pitt.edu/sfs/paycenter.htm.

PAYMENT

University statements may be paid by cash, check, or credit card; however, cash cannot be mailed or dropped into the Student Payment Center’s depository. The University accepts Discover, MasterCard, and Visa credit card payments in person, by mail, or telephone. The Student Payment Center is located in room G-7 of Thackeray Hall. The mailing address is P.O. Box 371998, Pittsburgh, PA 15250-7998, and the phone number is (412) 624-7550.

Due dates are clearly designated on billing statements and are always the 17th of the month. Failure to pay the amount due (or to arrange a deferred tuition payment plan by the due date) will result in a late payment fee for students without a valid deferral.

If students who have a tuition scholarship (for example, via a TA/TF/GSR/GSA appointment) receive a tuition statement indicating that their tuition has not been paid, they should immediately contact the school or department administering the scholarship for assistance in correcting the error.

CHECK AND CREDIT CARD ADJUSTMENTS

As appropriate, payment made by check may be refunded to students. Adjustments to credit cards are made to the payer’s credit card account and will be reflected on the Discover, MasterCard, or Visa monthly statement.
CAMPUS FACILITIES & STUDENT SERVICES

ACADEMIC RESOURCES

The University of Pittsburgh has a wide variety of academic resources that provide the infrastructure to aid students with their research and computing needs.

UNIVERSITY LIBRARY SYSTEM

271 Hillman Library
(412) 648-7710
E-mail: feedback@library.pitt.edu
Web site: http://www.library.pitt.edu

The University Library System (ULS) of the University of Pittsburgh is represented by 14 libraries located on the Pittsburgh campus, the Allegheny Observatory Library, the Archives Service Center, and a storage facility at UPARC in Harmarville. The ULS is a member of the Association of Research Libraries (ARL), the Oakland Library Consortium (OLC), and Pennsylvania Academic Library Connection, Inc. (PALCI). Through membership in several Pennsylvania consortia of libraries, cooperative borrowing arrangements have been developed with other Pennsylvania institutions.

Other University of Pittsburgh libraries include the Barco Law Library and the Health Sciences Library System (see below for detail), both located in Pittsburgh, as well as the four regional campus libraries—Bradford, Greensburg, Johnstown, and Titusville.

The University of Pittsburgh libraries and collections provide an abundant amount of information and services to the faculty, students, staff, administrators, and researchers of the University. In fiscal year 1999, the University’s collections totaled nearly four million volumes, nearly four million pieces of microforms, and 26,000 subscriptions (these subscriptions include more than 24,000 print subscriptions and nearly 2,000 electronic journals). Also, through the Graduate and Professional Student Association (GPSA), interlibrary loan grants of up to $25 a year are available to all graduate and professional students at the University to help offset the increasing costs of interlibrary loans between University of Pittsburgh libraries and those on other campuses. (See http://www.pitt.edu/~gpsa2/)

Under the administration of the University Librarian, the University Library System (ULS) includes the following libraries and collections:

- Hillman (main), which houses:
  - African-American
  - Buhl (social work)
  - East Asian
  - Government Documents
  - Latin American Studies
  - Special Collections
- Allegheny Observatory
- Business Information Center
- Center for American Music
- Chemistry
- Computer Science
- Darlington Memorial
  - American History
- Engineering
- Fine Arts
- Information Sciences
- Langley
  - Biological Sciences
  - Neuroscience
  - Psychology
- Mathematics
- Music
- Physics/Astronomy
- Public and International Affairs/Economics

The Hillman Library is the largest library facility with seating for 1,530 users. It offers an open stack arrangement and an extensive range of library services. In addition to the main collection, which is comprised primarily of humanities and social sciences subject areas, the Hillman Library is comprised of seven other libraries and collections, maps, national, and international newspapers, and microform facilities.

PITTCAT is the University of Pittsburgh’s online library catalog, offering author, title, subject, and keyword access to materials in all University libraries. PITTCAT currently contains bibliographic holdings and circulation information for more than three million titles, representing most of the book and periodical collections in all University libraries. In addition, the University libraries provide access to many remote resources for University of Pittsburgh faculty, students, and staff, including Digital Dissertations, EBSCOhost, InfoTrac, CIS Compass, MUSE, JSTOR, Science Direct, Web of Science, netLibrary, and numerous other electronic journals. PITTCAT and the other databases are available through the ULS Web site at http://www.library.pitt.edu.

BARCO LAW LIBRARY

The Barco Law Library, occupying three floors of the five-story Law School Building, is available to anyone needing to use its resources for legal research purposes. Likewise, the Government Document collection is available for use by the public at large. Call (412) 648-1323 for more information or see the library’s Web site at http://www.law.pitt.edu/library.

HEALTH SCIENCES LIBRARY SYSTEM

The Health Sciences Library System (HSLS) at the University of Pittsburgh is comprised of three distinct libraries that support the educational, research, patient care, and service activities of the schools of the health sciences (Medicine, Dental Medicine, Pharmacy, Health and Rehabilitation Sciences, Nursing, Public Health) and the UPMC Health System. This library system includes the Falk Library, the Nursing Collection in the Learning Resources Center of the School of Nursing, and the Western Psychiatric Institute and Clinic (WPIC) Library.

Falk Library of the Health Sciences serves as the flagship of the HSLS. It is located on the second floor of Seefeld Hall. The library houses
more than 300,000 print volumes and receives approximately 2,000 journal subscriptions. The Falk Library collection also includes a special History of Medicine collection. In addition to the library’s print collection, the Computer and Media Center (CMC) includes videotapes, audiotapes, more than 100 public computers, and over 300 microcomputer software packages.

WPIC Library is one of the world’s most comprehensive resources in psychiatry and the behavioral sciences, with approximately 70,000 books, 420 journals, and 600 audio tapes. The WPIC Library collection also includes 550 videotapes held at the Benedum Audiovisual Center. The Nursing Library is located on the second floor of Victoria Hall and includes about 10,000 books and 150 journal titles.

HSL Online, a digital clinical library, offers access through the World Wide Web to current biomedical databases, full-text journals, major full-text clinical and subspecialty textbooks, clinical practice guidelines, and current drug and toxidology information. HSL Online includes the following databases and information services: MEDLINE, AIDSLine, CancerLit, Bioethicsline, HealthStar, CINAHL, PsychINFO, Evidence-Based Medical Reviews, Micromedex, MDConsult, STAT!Ref, Harrison’s Principles of Internal Medicine, Lippincott’s Primary Care Online, and Scientific American Medicine Online.

For information about the Health Sciences Library System and its resources, or to access HSL Online, see http://www.hsls.pitt.edu/ or E-mail medlibq+@pitt.edu.

COMPUTING SERVICES AND SYSTEMS DEVELOPMENT

CONTACT INFORMATION
728 Cathedral of Learning
Phone: (412) 624-4357
Web site: http://technology.pitt.edu/

Computing Services and Systems Development (CSSD) is the comprehensive service center for the University of Pittsburgh’s computing support and systems development environment. A number of those services provided by CSSD are detailed below. For a full discussion of CSSD’s services, consult the Web page listed above.

CAMPUS COMPUTING LABS
CSSD operates six primary computer labs on the Pittsburgh campus, providing students with access to Intel, Macintosh, and UNIX workstations and an array of software applications needed to fulfill the demands of students’ academic endeavors. The six computing labs are located at 1077 Benedum Hall, G27/G62 Cathedral of Learning, 1E01 Posvar Hall, First Floor Hillman Library, 230 David Lawrence Hall, and C114 Sutherland Hall. The 230 David Lawrence Hall lab is open 24 hours a day, seven days a week. For hours of operation for all campus computing labs, please call (412) 624-5061.

NETWORK AUTHORIZATION ACCOUNTS
All enrolled students are eligible for a network authorization account (NAA). The NAA will permit a student to establish a user ID and a password to provide access to the University’s network resources, a Mulberry E-mail account, the Internet/WWW, the University Library System’s PITTCAT system, and a printing allowance at the campus computing labs. All students who wish to use the University computing resources, including the ability to access their schedules and grades online or to shop at the e-Store, must have a network authorization account. Accounts are issued at any of the campus computing labs. Password re-set and other account modifications must be made between 8:30 a.m. and 5:00 p.m. at the Accounts Office at the 230 David Lawrence Hall lab. Please contact the CSSD Help Desk at (412) 624-HELP (624-4357) for assistance with accounts.

NETWORK PORT CONNECTIVITY
Students can access the University’s network from home with their network authorization account and a modem through the remote access modem pool. Please contact the CSSD Help Desk at (412) 624-HELP (624-4357) for assistance.

COMPUTER CONSULTING SERVICES
CSSD has a staff of skilled information technology (IT) professionals who are available to help troubleshoot problems 24 hours a day, seven days a week. CSSD consultants are available to help with problems such as network connectivity, software difficulties, or even hardware malfunctions. Please call the CSSD Help Desk at (412) 624-HELP (624-4357) for assistance.

COMPUTER SALES AND DIGITAL CERTIFICATION
University of Pittsburgh students, faculty, and staff have access to the e-Store, an online retail provider of hardware, software, and peripherals, for their computing needs. Shopping at the e-Store requires a network authorization account and a digital certificate ID. Please see the e-Store’s Web site at http://e-Store.pitt.edu/ for additional information and a schedule of classes, please see the CSSD Workshop site at http://www.pitt.edu/~workshop or call the CSSD Help Desk at (412) 624-HELP (624-4357) for more information.

COMPUTING WORKSHOPS AND TRAINING
CSSD offers Quickstart classes, a series of short courses designed to orient new and experienced users to the University’s network, the Mulberry E-mail environment, and the selection of software applications available in the campus computing labs. CSSD also offers a selection of Java and Microsoft certification courses for students. For additional information and a schedule of classes, please see the CSSD Workshop site at http://www.pitt.edu/~workshop or call the CSSD Help Desk at (412) 624-HELP (624-4357).

NETWORK SERVICES
The Network Services area of CSSD is responsible for the development and maintenance of the University’s information technology network supporting voice, video, and data. The backbone of the University-distributed computing services is PittNet, a network based on Ethernet technology that serves the diverse communications needs of the entire University community. For additional information, please see the Network Services site at http://technology.pitt.edu/network/index.html or call (412) 624-4357.

RESEARCH AND ACADEMIC SUPPORT
A number of centers at the University support teaching, research, and academic skills for graduate students in a variety of fields. Those centers are detailed below in alphabetical order.

CENTER FOR BIOTECHNOLOGY AND BIOENGINEERING
The Center for Biotechnology and Bioengineering is a leading center for research in biology and bioengineering. The center’s headquarters, a new 80,000 square foot building located in a high-technology business park near the University, houses 100 researchers actively pursuing projects in the center’s main programs in applied enzymology, cell culture, biomaterials, gene therapy, and artificial organs. The center’s goals include training new generations of scientists; accelerating the process of innovation in biotechnology and
bioengineering; and providing assistance to the industrial community through industrially supported applied projects.

For more information on the center, call (412) 383-9700 or see the center’s Web site at http://www.pitt.edu/~biotech/.

CENTER FOR INSTRUCTIONAL DEVELOPMENT & DISTANCE EDUCATION (CIDDE)
The Center for Instructional Development & Distance Education (CIDDE) was established to strengthen the instructional development and support services available to faculty and teaching assistants. The Center enables faculty to identify and use technology and other instructional resources available to them.

CIDDE provides faculty and teaching assistants with a primary contact point for many of the instructional services they need, and it also assists in developing and supporting distance education programs and courses. CIDDE also hosts an orientation for new TAs each fall and provides ongoing training seminars for teaching assistants wanting to develop their teaching skills. For more information, visit CIDDE at 4227 Fifth Avenue (Masonic Temple), call (412) 624-3335, or visit CIDDE’s Web site at http://www.pitt.edu/~ciddeweb/

CENTER FOR PHILOSOPHY OF SCIENCE
The Center for Philosophy of Science promotes scholarship and research, encourages scholarly exchanges, and fosters publications in the philosophy of science as well as in the philosophically informed history of science and related fields. The center is dedicated to bridging the gulf between the sciences and the humanities by helping to develop and disseminate a philosophical understanding and appreciation of the sciences. The center pursues its mission not only locally and regionally, but also nationally and internationally. The center sponsors a visiting fellows program, an annual lecture series, a number of colloquia and workshops, and a variety of other programs. Like other centers at the University of Pittsburgh, the Center for Philosophy of Science is a unit for research rather than teaching. For more information on the center, visit the center in room 817 of the Cathedral of Learning, or on the Web at http://www.pitt.edu/~pittcntr/.

ENGLISH LANGUAGE INSTITUTE
The English Language Institute (ELI) provides credit-bearing English as a Second Language (ESL) courses for students admitted to the University’s degree programs, as well as intensive instruction in ESL for people who need to meet proficiency requirements to enter a university. Credit courses are offered in speaking, writing (including the research paper), and reading/vocabulary. Through the School of Engineering, a technical writing for ESL graduate course is provided. During the summer, the ELI offers five-week ESL programs for students entering MBA and MPIA graduate programs. Non-credit courses cover reading, writing, listening, speaking, and grammar. For more information, call (412) 624-5901, E-mail elipitt+@pitt.edu, stop by room 2816 Cathedral of Learning, or visit the Institute’s Web site at http://www.eli.pitt.edu

INSTITUTIONAL REVIEW BOARD
The Institutional Review Board (IRB) is charged with overseeing and approving all research at the University involving humans as subjects. For more information on the IRB’s policies and practices, call (412) 692-4370 or see the IRB’s Web site at http://www.ofres-hs.upmc.edu/irb/irb.htm.

LEARNING RESEARCH AND DEVELOPMENT CENTER (LRDC)
The Learning Research and Development Center (LRDC) is a multidisciplinary research center whose mission is to understand and improve learning by children and adults in the organizational settings in which they live and work: schools, museums, and other informal learning environments, and workplaces.

Fields of research include: processes of learning; learning in schools and museums; education improvement; education policy and practice; learning and technology; and learning and work. For more information, visit the center’s Web site at http://www.lrde.pitt.edu.

LEARNING SKILLS CENTER
The Learning Skills Center (LSC) offers free learning support services for University of Pittsburgh students, staff, and faculty. The math component provides tutoring for the University’s introductory math courses and individual consultation for improving study strategies and confidence in math. Individual and group study skills services are available through the study skills component. In the study skills workshop, students learn, discuss, and practice strategies for improving textbook reading, lecture note taking, memory, time management, and test performance. Individual appointments can also be made for general study skills, for suggestions on how to study specific subjects, or for help in reducing test anxiety.

Supplemental Instruction groups are conducted by the LSC for traditionally difficult introductory courses to give students the opportunity to learn and practice effective study strategies while studying the content of the course. The reading component provides diagnostic services, individualized programs in comprehension and vocabulary, and speed reading workshops.

For more information, contact the center at (412) 648-7920, room 311 William Pitt Union (open Monday through Friday from 8:30 a.m. to 5:00 p.m. and some weekday evenings), or see http://www.lsc.pitt.edu.

OFFICE OF MEASUREMENT AND EVALUATION OF TEACHING (OMET)
The Office of Measurement and Evaluation of Teaching (OMET) provides services to the University community related to student evaluation of teaching, the scoring of objective classroom tests, the administration of paper-and-pencil and computer-based admission and certification examinations, and consultation regarding research design and analysis. Instructors teaching a class, lab, or recitation can receive student feedback about their teaching by completing a request form that is available in both their respective departments and in G-39 CL (call 624-6147 for information). Information about test scoring and administration is available in G-33 CL (call 624-6440). OMET’s Web site is located at http://www.pitt.edu/NewPittInfo/omet.html#stu.

OFFICE OF RESEARCH
The Office of Research is charged with administrative responsibility for all University research and related activities involving extramural sponsorship. The Office of Research serves as both a center of advocacy for research and related activities and a facilitator of the research environment. The functional areas supported by Office of Research staff include information services on potential sources of funding, project and proposal development assistance, and grants and contracts administration for both pre-award and selected post-award tasks. All funding proposals submitted by University personnel must be transmitted to and reviewed by Office of Research staff to assure adherence to internal and external policies and procedures. For more information on the office’s services, call (412) 624-7400, visit 350 Thackeray Hall, or see http://www.pitt.edu/~offres.
UNIVERSITY CENTER FOR INTERNATIONAL STUDIES (UCIS)
The University Center for International Studies (UCIS) is the central coordinating and support mechanism for the international activities of the University of Pittsburgh. As a University-wide center, UCIS supports multidisciplinary programs of research and instruction in international and area studies, linking departments and schools of the University. It connects the University with private and public sector institutions, other universities, and institutions in other countries to strengthen the University’s international dimension of teaching, research, and public service. UCIS aids students in their acquisition of international knowledge through certificate programs, study abroad programs, curriculum developments, and seminars; assists faculty in their international research, teaching, and service; and develops and manages international programs and projects. The center offers graduate certificate programs through its four area studies centers (Asian Studies, Latin American Studies, Russian and East European Studies, and West European Studies), all of which are designated by the federal government as National Resource Centers. Area studies certificate programs give evidence of language proficiency and area knowledge, which students find useful for international careers or for advanced degrees with a focus in a particular world area.

For more information, contact UCIS at 4G Posvar Hall, (412) 648-7390, or http://www.ucis.pitt.edu/index.html.

UNIVERSITY CENTER FOR SOCIAL AND URBAN RESEARCH (UCSUR)
Established in 1972 to carry out basic and applied social science research, the University Center for Social and Urban Research (UCSUR) is a focal point for collaborative interdisciplinary and multidisciplinary studies. Faculty from the University’s Faculty of Arts and Sciences and the professional schools participate in UCSUR’s research programs. More than 60 federal, state, and local agencies, and foundations support the basic and applied research of the Center.

UCSUR is the major survey research facility at the University of Pittsburgh. The center provides opportunities for faculty collaboration in the development of research projects. It also provides state-of-the-art survey research facilities and other services to assist in formulating and executing research projects; information and technical services for local governments, community groups, and educational institutions; and primary and secondary data acquisition and analysis.

UCSUR is a Pennsylvania State Data Center research affiliate responsible for helping local academic institutions, businesses, governments, and other organizations in Southwestern Pennsylvania access and analyze U.S. Bureau of the Census data.

For more information on UCSUR, call (412) 624-5442 or see http://www.ucis.pitt.edu/~ucsur/.

WRITING CENTER
The Writing Center, located in the University’s English department, offers tutoring assistance for students who need help with their writing in any class. Tutors will help solve writing problems with students but will not edit or write text. Students may drop in any time, but it is best to call for an appointment. The Writing Center is open Monday through Friday and also has some evening hours. For more information, call (412) 624-6556, stop by room 501 Cathedral of Learning, or see http://www.pitt.edu/~englweb/writecent.html.

SERVICES FOR NEW TEACHING ASSISTANTS
The University has a variety of support mechanisms for new teaching assistants to help them develop and improve their teaching skills. Each fall, the Center for Instructional Development & Distance Education (CIDDE) hosts an orientation for new TAs. The program includes required workshops led by experienced TAs and faculty on promoting academic integrity and creating an inclusive classroom. Elective workshop topics address issues such as teaching in labs, teaching recitations, and dealing with difficult situations. A panel of professors and students describe the University’s undergraduate population to new TAs. For registration information, call (412) 624-6671. CIDDE also publishes a Teaching at Pitt handbook that includes helpful information for new TAs.

Also, CIDDE and the Office of Measurement and Evaluation of Teaching (OMET) provide further training and evaluation for teaching assistants (see above for detail on CIDDE and OMET).

HOUSING
Pittsburgh has a number of pleasant residential neighborhoods with private homes that have been converted to apartments. Many graduate and professional students live in Oakland, where the University is located, or in the surrounding neighborhoods of Shadyside, Squirrel Hill, Highland Park, and Mount Washington. All of these areas are within walking distance or easy commuting distance of the University. Public bus transportation is widely available and is free (inside Allegheny County limits) to University students.

Rusklin Hall is the only residence hall on campus for graduate students. It is designated as living space for graduate students studying medicine, law, or other health-related professionals. Students interested in Rusklin Hall should contact the Property Management Department (see below).

HOUSING RESOURCE CENTER
The Housing Resource Center provides assistance to students, staff, and faculty in identifying, renting, leasing, or purchasing suitable living accommodations. The Housing Resource Center provides the following: information on University-owned apartments; an apartment-roommate matching service; a sublet service; maps of Pittsburgh and surrounding areas; rental tips; campus shuttle schedules; free local telephone service to contact landlords; and listings of apartments inspected and approved by the City of Pittsburgh. Call (412) 624-6998, visit the office at 127 North Bellefield Street, or see http://www.pitt.edu/~property/hrc.html.

PROPERTY MANAGEMENT
The Department of Property Management manages several off-campus apartment buildings near the University for students, faculty, and staff. For more information on the buildings and how to make a rental application, call (412) 624-9900, visit the office at 127 North Bellefield Avenue, or see http://www.pitt.edu/~property/pm.html.
STUDENT RESOURCES

The University is committed to providing a high quality of life for its students and towards that end supports a variety of offices and activities designed to aid students in realizing their potential and having a fulfilling campus life.

AFFIRMATIVE ACTION

In addition to its work with developing, implementing, and monitoring the University’s affirmative action program, the Office of Affirmative Action is responsible for receiving, investigating, and mediating complaints from any members of the University community who believe they have been discriminated against or harassed on the basis of their race, color, religion, national origin, ancestry, sex, age, marital status, familial status, sexual orientation, disability, or status as a disabled veteran or a veteran of the Vietnam era. Individuals may request information and advice anonymously if they wish. The privacy of all parties will be respected. The office is located in room 901 of the Cathedral of Learning and the phone is (412) 648-7860. See http://www.hr.pitt.edu/general/affirm.htm for further information on the office’s services and the University’s affirmative action policy.

ATHLETICS

The University offers a variety of opportunities for students to participate in athletics on the intramural and club levels as well as on-campus facilities for group sports and individual exercise.

VARSITY SPORTS

The University offers nine varsity sports each for men (baseball, basketball, cross country, diving, football, soccer, swimming, indoor and outdoor track, and wrestling) and women (basketball, cross country, diving, gymnastics, soccer, swimming, tennis, indoor and outdoor track, and volleyball). For tickets, scheduling, or other information about these sports, call (412) 648-8200 or visit the Pittsburgh Panthers Web site at http://www.pittsburghpanthers.com.

INTRAMURAL AND CLUB SPORTS

New outdoor playing fields are available behind the renovated Cost Sports Center. Call (412) 648-8210 for more information or visit the intramural program’s Web site at http://www.pitt.edu/~soeforum/hpred/intramuals/imexperi.html.

Sports clubs offer participation in a wide array of sports such as cycling, crew, hockey, and rugby. Contact the Student Organization Resource Center at 119 William Pitt Union, (412) 624-7116 for a complete list of sports clubs, or visit the club site at http://www.education.pitt.edu/intramurals/.

SPORTS FACILITIES

There are a variety of sports facilities available for use by individuals and groups. In Trees Hall, there are two swimming pools (call 412-648-8210 for pool information), a weight room, and courts for basketball, racquetball, handball, and squash. The Fitzgerald Field House also has two basketball courts and a 220-yard indoor track (call 412-648-8213 for schedule of available times). The Cost Center has nine indoor tennis courts, and fitness centers are available at Bellefield and Lothrop Halls. Bellefield Hall also has a swimming pool. The new Convocation and Events Center, scheduled to open on the Pitt Stadium site in 2001, will house a large student recreation and fitness center, among other amenities.

BOOK CENTERS

The University owns and operates two bookstores on campus: the Book Center and the Health Book Center. The Book Center, located at 4000 Fifth Avenue, carries textbooks for most University courses, as well as a general book selection, school supplies, and sundries such as art supplies, stationery, greeting cards, and calendars. Call (412) 648-1455 or see http://www.pitt.edu/~bookctr/ for more information. The Health Book Center, located at 3527 Forbes Avenue, carries all course books for the Schools of Medicine, Dental Medicine, Health & Rehabilitation Sciences, Nursing, Pharmacy, and Public Health. Call (412) 648-8915 or see http://www.pitt.edu/~bookctr/hbc.htm for more information.

CHILD CARE

The University Child Development Center provides care and early childhood education to children of faculty, staff, and students of the University of Pittsburgh. Children range in age from six weeks through six years and participate in a wide range of programs that include full- and part-time infant, toddler, and preschool options and full-day kindergarten. There is a school-age summer program as well. The center serves the University as a laboratory school and the greater community as a model of early childhood excellence. There is a lengthy waiting list and prospective parents are encouraged to put children on that list as soon as possible. It is acceptable to put an unconceived child on the list in the interest of prudent planning. The Center is located at 635 Clyde St. and is open from 7:00 a.m. to 6:00 p.m., Monday through Friday. For more information, call (412) 383-2100 or see http://www.hr.pitt.edu/ucdc/child.html.

COUNSELING CENTER

The University Counseling Center provides free, confidential services to all students. The staff consists of psychologists, psychiatrists, and career counselors. Services include individual counseling, group counseling and the Career Resource Center. Students may come to the center for assistance with problems of an emotional, social, marital, academic, or career nature. The Center is located in room 334 of the William Pitt Union and is open year-round from Monday through Friday from 9 a.m. to 5 p.m., with additional hours from 6:00 p.m. to 9:00 p.m. on Monday nights during the Fall and Spring Terms. Call (412) 648-7930 for an appointment or see http://www.pitt.edu/~counsel for more information.

DISABILITY RESOURCES AND SERVICES

The Office of Disability Resources and Services (DRS) provides a broad range of support and services to assist students with disabilities. Services include, but are not limited to, the following: tape-recorded textbooks, sign language interpreters, adaptive computer technology, Braille copy, and non-standard exam arrangements. DRS can also assist students with accessibility to campus housing and transportation. Contact the DRS at (412) 648-7890 (voice or TDD) in room 216 of the William Pitt Union, or see http://www.pitt.edu/~osaweb/drs/drs.html for more information.

FOOD SERVICES

The Department of Food Services operates several cafeterias and food courts on campus and administers a meal plan for students, including graduate and professional students. Cafeterias or food courts are located in the following University buildings: Tower A, Tower C, William Pitt Union, Cathedral of Learning, Sutherland Hall, Mervis...
Hall, Benedum Hall, and Posvar Hall. Call (412) 648-2164 or see http://www.pitt.edu/~food/ for more information.

The University of Pittsburgh Medical Center also operates a cafeteria on the 11th floor of Scaife Hall.

HEALTH CARE AND STUDENT HEALTH SERVICE

All full-time students pay a Student Health Fee each term to cover a variety of services at the Student Health Service, which is located in Suite 500, Medical Arts Building, 3708 Fifth Avenue. The Student Health Service is a multi-service healthcare facility that offers outpatient clinical services, gynecology, and family planning, as well as comprehensive health education programs. Call (412) 383-1800 or see http://www.pitt.edu/~studhlth for more information.

The University of Pittsburgh Pharmacy, located in the same suite as the Student Health Service, offers over-the-counter and prescription medication, often at lower prices than available elsewhere. Call (412) 383-1850 or see http://www.pitt.edu/~pitrx for more information.

Students should have health insurance to protect themselves in the event of illness or injury. Also, some schools may require students to carry insurance as a condition of their enrollment, particularly when students may be in contact with blood-borne pathogens. A direct pay medical insurance plan, underwritten by MEGA Life and Health Insurance Company, is available to students registered at the University for three or more credits. While not a full-coverage plan, this plan is designed to provide a student’s basic health care needs, including services not offered at the Student Health Service such as hospitalization and emergency care. Students may enroll in the MEGA plan only during certain enrollment periods. Applications, enrollment deadlines, and further information on the plan are available at the Student Health Service, Suite 500, Medical Arts Building, 3708 Fifth Avenue, Pittsburgh, PA 15260, (412) 383-1800, or by contacting the Office of Risk Management at (412) 624-0621.

Teaching Assistants, Teaching Fellows, Graduate Student Assistants, and Graduate Student Researchers with eligible academic appointments are currently eligible to enroll in a managed care plan. The University will cover the cost of this insurance for these eligible graduate students. Coverage is available for eligible spouses and dependents by paying the difference between the individual and dependent options through a monthly payroll deduction. Students supported by fellowships and traineeships may be eligible to purchase membership in this insurance plan by paying the full cost of the coverage through a monthly deduction.

ID CENTER

Every student, faculty, and staff member at the University must get an ID card from the ID Center, located in room 107 McCormick Hall. The PittCard is used to access a variety of campus buildings and to take advantage of on-campus services, including libraries, computer labs, student discounts, and the like. The card also affords access to off-campus benefits such as free bus rides on Port Authority Transit (see Parking and Transportation).

To obtain a PittCard, students must have registered for classes, and must present some form of photo identification, such as a driver’s license or passport. If a student does not have any photo identification, several forms of signature ID, such as credit or bank cards or a social security card must be presented. Students may also use a birth certificate as a form of non-photo identification. There is no charge for the initial PittCard. However, there is a $20 replacement fee for lost, stolen, or damaged cards. Call (412) 624-7643 (624-7632 after hours) or see http://www.pitt.edu/~idcenter/index.html for more information.

INTERNATIONAL SERVICES

The Office of International Services provides services on matters relevant to international students and scholars. Among the services provided are the evaluation of foreign academic credentials for applicants to the University of Pittsburgh with education outside the United States; the issuance of visa documents; orientation for new international students; counseling on personal, social, and financial matters; information and advising on regulations of the Immigration and Naturalization Service and other government agencies, as well as the processing of documents for enrolled international students for travel and employment. To contact the Office of International Services, phone (412) 624-7120, fax (412) 624-7105, or E-mail ois@pitt.edu. The office’s mailing address is Office of International Services, 708 William Pitt Union, University of Pittsburgh, Pittsburgh, PA 15260-5071.

PARKING AND TRANSPORTATION

The University provides a variety of parking and transportation services, both on and off campus, some of which are detailed below. For more complete information, call the University Department of Parking, Transportation, and Services’ 24-hour hotline at (412) 624-8800 or see http://p-and-t.parktran.pitt.edu/.

PARKING SERVICES

A limited number of parking permits are available for graduate and professional students living in Ruskin Hall and for those students who commute from off-campus. Permits are sold on a first-come, first-served basis. Daily student commuter parking is also available in several lots located throughout the campus. No permit is required for these facilities; charges are based on daily or hourly rates. Commuter students may also purchase parking permits at the Center for Biotechnology and Bioengineering, an off-campus lot connected to main campus by a shuttle. Evening/weekend student parking permits are available to those who do not need to park until after 3:50 p.m. on weekdays. For more information, contact the Parking Office, 204 Brackenridge Hall, (412) 624-4034.

RIDESHARING

Daily commuter students can save money by sharing a ride with other students. A free, computerized matching service is available to find names and phone numbers of others interested in sharing a ride. Call (412) 624-0687 for more information.

PITTSBURGH CAMPUS TRANSPORTATION SYSTEM

University of Pittsburgh students may ride all of the Pitt buses and shuttles for free by showing a valid University ID. In addition, students are permitted two guest riders (space permitting). Buses and shuttles normally have a 25- to 35-minute route. Detailed maps and time schedules are available in the lobbies of many campus buildings, libraries, and residence halls.

VAN CALL

An on-call Van Call is available from 7 p.m. until 3 a.m. Sunday through Wednesday, and from 7 p.m. until 5 a.m. Thursday through Saturday, to transport students from campus to a residence or from a residence to campus. This service is only available for those not on a fixed shuttle route and within the following area around the campus: South—Second
Avenue/Center for Biotechnology and Bioengineering parking; North—Baum Boulevard; West—Robinson/Craft Avenue; and East—Morewood Avenue. Van Call will also pick up students at the downtown Greyhound bus station on Sundays only. Students may call (412) 624-1700 to have the on-call van dispatched to their location.

PORT AUTHORITY
University of Pittsburgh students may ride any Port Authority bus, incline, or trolley within Allegheny County for free by showing their valid University ID card. Port Authority bus schedules are available at the Transportation Office in Forbes Pavilion, the Parking Office at Brackenridge Hall (room 204), and in the lobby of the William Pitt Union.

BICYCLE REGISTRATION PROGRAM
Registration of bicycles is recommended as a deterrent to theft, to help in the identification of lost or stolen bicycles, and to help the Department of Parking, Transportation, and Services better accommodate cyclists at the University. Registration is free. Bicycle rack parking is also free. Bicycle parking maps, regulations, and safety tips are available from the department. Bicycle lockers may be rented for $40 per term, plus a $10 refundable locker key deposit. Call (412) 624-0687 for more information.

PITT ARTS
PITT ARTS is a program designed to provide the University’s students with access to and information about the many cultural institutions in Pittsburgh. The program’s Web site gives information about a wide range of events in music, film, theater, visual arts, lectures, museums, and other cultural programming both on campus and in the city at large; it also provides information about volunteering for different cultural organizations in the city. PITT ARTS has programs designed for both resident and commuting students, including providing free access during the Fall and Spring Terms for all University students with a valid ID to several museums in Oakland: Phipps Conservatory and the Carnegie Museums of Art and Natural History.

PITT ARTS and the Department of Parking, Transportation, and Services also sponsor the Cultural Bus for the convenience of Pitt students every Sunday through the Fall and Spring terms. The Cultural Bus (number 17U) departs from the William Pitt Union, on Bigelow Boulevard, beginning at 12:00 noon. The 17U Cultural Bus takes students to some of Pittsburgh’s key cultural destinations, including the Andy Warhol Museum, Heinz Hall, the Senator John Heinz Regional History Center, the Mattress Factory, and the Carnegie Science Center. Schedules are available at the William Pitt Union Parking Office (204 Brackenridge Hall), and Transportation Office, 3525 Forbes Avenue, and online at the Parking and Transportation Web site: http://p-and-t.parktran.pitt.edu/.

For more information, visit PITT ARTS at http://www.pitt.edu/~pittarts/.

PLACEMENT SERVICE
Graduate and professional students should consult with their faculty mentors as well as departmental, program, or school placement services as their primary source for guidelines on career development specific to their discipline. As a secondary resource, the University Placement and Career Services, though mainly designed to assist undergraduates, has a variety of services that may be of use to graduate and professional students.

Placement and Career Services is designed to work with students at each step of the Pitt Pathway, a developmental model for career planning and implementation. Specific services that assist students in implementing their plan and beginning their job search include an on-campus recruiting program, a resume referral service, current job postings posted on the Web site and on job boards, and use of an alumni volunteer database entitled AlumNet. Placement and Career Services helps students establish contact with employers in the fields of business, government, health care, education, industry, and private research. A credential service maintains letters of recommendation files that are sent at the request of the student to prospective employers and graduate schools. PCS also maintains a part-time/summer job database for students interested in temporary or part-time work on and off campus. For more complete information on services provided by Placement and Career Services call (412) 648-7130, stop by room 224 William Pitt Union, or see http://www.placement.pitt.edu.

PUBLIC SAFETY
The Department of Public Safety provides police and security services to the University community. For emergency calls dial 811 from on-campus phones or (412) 624-2121 from off-campus phones. The University of Pittsburgh Police Department’s main headquarters is located in GIN30 Posvar Hall. For general information calls (non-emergency), dial (412) 624-4040. For more information on the Department of Public Safety, see http://www.pitt.edu/~police/.

SEXUAL ASSAULT SERVICES
The Office of Sexual Assault Services provides individual and group counseling designed to alleviate the trauma associated with sexual assault and sexual harassment. University of Pittsburgh students who have been sexually assaulted or who have experienced some form of sex discrimination are eligible for services. Emergency, medical, legal, and police support are provided. Students are assisted in negotiating course schedule or room changes and in obtaining medical, legal, and counseling resources available to them within the University and local communities.

The peer education program is an integral component of Sexual Assault Services. P.E.E.R.S. (Peer Educators for an Environment Free of Rape and Sexual Exploitation) is a volunteer student outreach program whose mission is to create an awareness of the dynamics of sexual assault on the Pitt campus, promote healthy relationships and effective communication, and reduce the occurrence of sexual victimization.

For more information, call (412) 648-7856, visit 926 William Pitt Union or see http://www.pitt.edu/~saserv, or call (412) 648-7844.

STUDENT GOVERNMENT
The Graduate and Professional Student Association (GPSA) is the official umbrella graduate and professional student organization at the University of Pittsburgh. GPSA is made up of graduate student organizations (GSOs) from each of the schools at the University. The purpose of GPSA is to represent both the academic and non-academic interests of all graduate and professional students and to provide student-initiated and student-controlled services. GPSA coordinates efforts with graduate student organizations from the different University graduate and professional schools and provides graduate student representation on key University-wide committees. The GPSA also has a limited amount of funding to support student scholarship, including funding for student travel to academic conferences, for
interlibrary loans, and for academic programs sponsored by individual schools within the University. For more information, see the GPSA Web site at http://www.pitt.edu/~gpsa2.

STUDENT ORGANIZATIONS

Over 250 certified student organizations provide a myriad of opportunities for extracurricular activity. In addition to student government, media, publications, and programming organizations, there are clubs for sports, recreation, performing arts, politics, religion, service, professional and academic pursuits, ethnic and cultural enrichment, and many other specialized interests. A complete list of certified student organizations is available from the Office of Student Activities (140 William Pitt Union, 412-648-7830, or see http://www.pitt.edu/~studact/).

SURVIVAL SKILLS AND ETHICS PROGRAM

The Survival Skills and Ethics Program sponsors a series of monthly workshops and activities designed to help train graduate and professional students in the skills necessary for success during and after their time at the University. These skills include the ability to communicate both orally and in writing, to learn and teach, to obtain and keep a job, to manage stress and time, and to behave responsibly. Graduate and professional programs often do not provide comprehensive training in all of these areas; the Survival Skills & Ethics Program encourages the development of mechanisms for assisting graduate and professional students in developing these skills. For more information on workshops and other services provided by the program, call (412) 624-7098, visit 4K57 Posvar Hall, or see http://www.pitt.edu/~survival/.

VETERANS SERVICES

The staff of the Office of Veterans Services assists veterans, war orphans, and veterans’ dependents in obtaining and using their VA educational benefits. In addition to these services, the office implements the VA work-study program. The staff serves as the veterans’ representative with the University, the Veterans Administration, and other related agencies. The office is located in room G-3 of Thackeray Hall. Call (412) 648-7885 or see http://www.pitt.edu/~srfsweb/vetPgVetServ.htm for more information.

WILLIAM PITT UNION

The William Pitt Union, built just over 100 years ago as the Schenley Hotel, has been extensively remodeled and renovated. The union is located across Bigelow Boulevard from the Cathedral of Learning and serves as the focal point for campus activities, student organizations, and the Division of Student Affairs. The union features a recreation center, arcade, food service, information service, art gallery, TV room, dance studio, lounges, meeting rooms, student organization offices, ticket office, dining rooms, and several multi-use spaces for programs. To reach the union’s information desk, call (412) 648-7815.
GENERAL ACADEMIC REGULATIONS

ADVISING

The quality of education that graduate students receive is greatly enhanced with good academic advising at all stages of their program. Given the diversity of these needs, each school and program must determine the best way to provide these services. Each program should have a document describing its view of good graduate advising practices and a clear policy on how good graduate advising is assessed and rewarded. For more information on academic advising at the graduate level, see Elements of Good Academic Advising at http://www.pitt.edu/~provost/advising.html.

Students are encouraged to consult with the individual school for school-specific advising services. In addition, the online Schedule of Classes can be a useful advising tool (see http://www.pitt.edu/~srfsweb/crsinPgCrsInfo.htm) in planning a course of study.

ALLOWABLE CREDITS

There are certain limitations on the credits that can be earned towards a graduate degree at the University of Pittsburgh. Those limitations are detailed below.

ACCEPTANCE OF TRANSFER CREDITS

Students who have completed graduate courses in degree-granting graduate programs at other accredited institutions prior to admission to the University of Pittsburgh should submit official transcripts from those institutions at the time they apply so that the courses can be evaluated for transfer credit. In no case may the total number of credits transferred exceed the maximum number stated in the sections of this bulletin pertaining to advanced degree requirements. For more detail, see credit requirement information in the sections on Regulations Pertaining to Master of Arts and Master of Science Degrees, Professional Master’s Degrees, or Doctoral Degrees as well as the relevant program information in Schools, Departments, and Programs. Grades (and quality points) are not recorded for credits accepted by transfer.

Transfer credits will not be accepted for courses in which a grade lower than B (QPA=3.00) or its equivalent has been received. No credit will be granted toward an advanced degree for work completed in extension courses, correspondence courses, courses delivered electronically, or those offered in the off-campus center of another institution unless those courses are approved for equivalent graduate degrees at that institution and the institution has an accredited program.

The completion of requirements for advanced degrees must be satisfied through registration at the Pittsburgh campus of the University of Pittsburgh. Graduate students already enrolled may, when approved in advance by their department and the dean, spend a term or more at another graduate institution to obtain training or experience not available at the University of Pittsburgh and transfer those credits toward the requirements for an advanced degree at the University of Pittsburgh. In such instances, neither the University nor any of its components is responsible for providing any financial assistance to the graduate student.

COURSE WORK ACCEPTABLE AS GRADUATE CREDIT

A substantial proportion of courses acceptable toward a graduate degree should be designed explicitly for graduate students. Introductory graduate-level (master’s-level) courses are numbered 2000-2999, and those at an advanced graduate-level (doctoral-level) are numbered 3000-3999. To be eligible for a master’s degree, a student must have completed at least four courses (12 credits) or one-half the total number of credits submitted for the degree, whichever is greater, at the graduate-level (2000 or 3000 series). Doctoral students must complete additional graduate-level courses as determined by his or her department or school. No lower-level undergraduate courses numbered 0001-0999 may be applied toward a graduate degree.

CREDIT BY COURSE EXAMINATION

Some schools at the University offer credit by course examination. Each school authorized to offer graduate courses clearly specifies in its section of this bulletin whether or not students may obtain credit toward a degree in this fashion and, if so, for which courses. A school granting graduate credit for life or work experience will do so only through the option of credit by examination.

CROSS REGISTRATION CREDITS

Students may register for graduate courses at Carnegie Mellon University, Duquesne University, the Pittsburgh Theological Seminary, and Robert Morris College under the Pittsburgh Council on Higher Education (PCHE) cross registration agreement. Such work, if approved in advance by the student’s advisor, will not be considered as transfer credit and may be counted for credit toward a graduate degree; the grade earned will be used in computing the student’s quality point average. See also Cross Registration in Registration section of this bulletin.

ENROLLMENT IN GRADUATE COURSES AS AN UNDERGRADUATE

University of Pittsburgh undergraduate students with sufficient preparation are permitted to enroll in certain graduate courses at the University following procedures determined by each school. The graduate credits earned may be counted toward the undergraduate degree if approved by the student’s school. These may not be counted as credits toward a graduate degree except as noted below.

Undergraduate students who need fewer than 15 credits to complete requirements for the baccalaureate degree and who intend to continue study toward an advanced degree may be permitted during their final term to register for graduate courses that will later apply toward a graduate degree. The student must obtain written permission from the school of proposed graduate study that the courses may count when and if the student is admitted into the graduate degree program. This privilege should not be granted if the proposed total program exceeds a normal full-time load. Although these credits will appear...
on the undergraduate transcript, they will not count toward fulfilling undergraduate degree requirements. They will be posted as advanced standing credits on the graduate transcript.

REGISTRATION

REGISTRATION FOR CLASSES

After being admitted to a graduate program, students may register for classes with their academic advisor. The registration period for a term or session is published in the University’s Schedule of Classes (see http://www.pitt.edu/~srsweb/crseinPgCrsInfo.htm), in course descriptions, on calendars (including the University’s Academic Calendar at http://www.pitt.edu/~provost/calendar.html), and in numerous other publications.

Students registering for the first time are advised to complete registration well before the beginning of the term. Typically, the first day of classes is the last day for students to register. After the start of classes, registration for new and continuing students is permitted only in unusual circumstances and only with the written approval of the dean and the payment of a late registration fee.

Many students have the convenience of processing their registration form online in their school or advisor’s office. Students may also process their registration form in the Registration Office, G-1 Thackeray Hall.

Students are required to have the signature of their academic advisor on the registration form. The student’s signature on the registration form creates a financial obligation to the University of Pittsburgh. Once students have registered, they may view their class schedules online at http://student-info.pitt.edu.

FULL-TIME AND PART-TIME STUDY

Students must be officially admitted to the University to be eligible to register for classes. Graduate students who register for nine to 15 credits in the Fall or Spring Term are full-time students and are assessed the tuition rate for their school (for detail, see http://www.ba.pitt.edu/irw/tuition/tuitionmpg.htm). A school may require students enrolled in a degree program to register for more than nine credits. Students who register for fewer than nine credits are part-time students and are billed on a per-credit basis. During the Summer Term and Summer Sessions, most students are billed on a per credit basis regardless of the number of credits taken. At the Katz Graduate School of Business, full-time MBA students are billed a flat rate in the Summer Term (since this is a one-year program, tuition is spread over three terms).

Doctoral students who have completed all credit requirements for the degree, including any minimum dissertation credit requirements, and are working full-time on their dissertations may register for full-time dissertation study, which carries no credits or letter grade but provides students full-time status. Students so enrolled are assessed a special tuition fee but are still responsible for paying the full-time computer and network, security/transportation, student health service, and activity fees. Students must consult with the dean’s office of their school for permission to register for full-time dissertation study.

MAXIMUM CREDITS PER TERM

No student is permitted to register for more than 15 graduate credits without written permission from the dean of the academic center in which the student is pursuing a degree. Graduate students who register for more than 15 credits will be billed for each additional credit that exceeds their full-time tuition rate. Exceptions include the following:

- The Katz Graduate School of Business allows its full-time MBA students to register for up to 18 credits in the Fall and Spring Terms before additional per credit tuition charges apply.

- The School of Law has no maximum number of credits in its first-professional programs for billing purposes, but permission of the associate dean is required to register for more than 15 credits per term.

- The Graduate School of Public Health allows students pursuing the Master of Health Administration or the Master of Public Health in Environmental and Occupational Health to take up to 16 credits during their first year of study.

- The School of Social Work allows its students to register for 16 credits in the Fall Term before additional per credit tuition charges apply.

Individual schools and departments may restrict the maximum program of any or all of their graduate students.

REGISTRATION STATUS AT GRADUATION

All graduate students must register for at least one credit or full-time dissertation study during the 12-month period preceding graduation (that is, must be on active status) and must be registered for the term in which they plan to graduate. Waivers may be obtained by submitting a written request to the registrar from the dean of the school. The request should be based on extenuating circumstances, e.g. inability of the student’s dissertation committee to meet during the final term when a student has given reasonable notice or the student has completed all degree requirements in a previous term.

INACTIVE STATUS

Students who have not registered for at least one credit or full-time dissertation study (eligible doctoral students) during a 12-month period are transferred to inactive status and must file an application for readmission to graduate study (application fee required) before being permitted to register again. Students on inactive status cannot apply to graduate or take preliminary or comprehensive examinations. Also, students on inactive status are not eligible to use University facilities and should not expect to receive counseling from the faculty or active supervision by their advisor and committee.

ADDING AND DROPING COURSES

Students may add and drop course(s) only during the add/drop period. The dates for the add/drop period are listed in the University’s Schedule of Classes, in course descriptions, on calendars (including the University’s Academic Calendar at http://www.pitt.edu/~provost/calendar.html), and in numerous other publications. Students who no longer wish to remain enrolled in a course after the add/drop period has ended may withdraw from the course or resign from the University. See Monitored Withdrawal from a Course or Resigning from the University.
AUDITING COURSES

With the consent of the school and instructor, students may choose to audit a course. To audit a course, a student must register and pay tuition for the course. The N grade is not counted toward graduation or the QPA.

CROSS REGISTRATION

Carnegie Mellon University, Duquesne University, the Pittsburgh Theological Seminary, Robert Morris College, and the University of Pittsburgh offer graduate students the opportunity for cross registration in graduate programs in the five institutions in the Fall and Spring Terms. Credits earned by cross registration in graduate courses at Carnegie Mellon, Duquesne University, the Pittsburgh Theological Seminary, and Robert Morris College, when approved in advance by the student’s graduate advisor, are accepted as University of Pittsburgh credits for the purpose of the calculation of the quality point average and the completion of degree requirements. Each department at each institution retains the authority to establish the prerequisites for admission and the maximum enrollment in its own courses and to grant priority in registration to its own graduate students.

Cross registration is only available in the Fall and Spring Terms. Only full-time students may cross register. Students who cross register do not pay tuition to the host institution; however, they are responsible for any additional fees associated with the course such as laboratory fees, books, and the like. During the summer, students may attend programs.

Dual- and joint-degree programs result in two degrees being awarded. Requirements for these programs include all or most of the requirements of two distinct academic degree programs. Dual programs exist within a single school; joint programs exist between two or more schools; cooperative programs are administered by two or more institutions. Before registering for courses in pursuit of a cooperative-, dual-, or joint-degree program, a student must be admitted to both programs. See Special Academic Opportunities, page 30, for further detail.

MONITORED WITHDRAWAL FROM A COURSE

After the add/drop period has ended, students may withdraw from a course that they no longer wish to attend by completing a Monitored Withdrawal Request form in the office of the school offering the course.

Students must process the Monitored Withdrawal Request form within the first nine weeks of the term in the fall and spring. Because summer sessions vary in length, students should check the summer Schedule of Classes for those deadlines. Students should check with the school offering the course for the last day to submit a Monitored Withdrawal Request form. The grade “W” will appear on the student’s grade report and transcript. There is no financial adjustment to students’ tuition or fee obligations involved in withdrawing from courses, but withdrawing may jeopardize satisfactory academic progress, financial aid, and assistantships or fellowships.

RENSING FROM THE UNIVERSITY FOR A SPECIFIC TERM

If students decide to drop all of their courses after the add/drop period has ended and before 60% of the term or session has been completed, they must resign from the University for that term. Official resignation from the University requires students to contact the Student Appeals Office. Students have several options. They may resign in person, by mail, or by calling (412) 624-7585 where students may leave a message 24 hours a day, including weekends and holidays. An R grade will appear on the student’s academic transcript. Tuition is prorated from the date of the student’s notification to the Student Appeals Office of the student’s desire to resign, unless 60% of the term has been completed, in which case there is no refund.

After the 60% point in time of the term or session has passed, students who wish to terminate their registration may process withdrawal from all classes only with the permission of their academic dean. If the reason for withdrawal is medical or psychological in nature, the academic dean may consult with the director of Student Health Service prior to making a determination. There is no financial adjustment associated with this procedure, which results in the assignment of W grades for the courses.

GRADING & RECORDS

QPA AND GPA

Quality Point Average (QPA) and Grade Point Average (GPA) are numerical indications of a student’s academic achievement. QPA is the average of letter grades earned toward a degree. GPA is the average of total letter grades earned.

ACADEMIC STANDARDS

An average of at least B (QPA=3.00) is required in the courses that make up the program for any graduate degree. A student with full graduate status is automatically placed on probation whenever his or her cumulative QPA falls below 3.00. Each school determines the restrictions placed on a student on probation. See Probation, Suspension, and Dismissal for further detail.

GRADING SYSTEM

The University of Pittsburgh has a standard letter grade system (see Letter Grades below). Some additional grading options are available in some courses as determined by the school and the instructor (see sections below on University Grading Options and Other Grades). Students are subject to the grading system of the school in which they are taking the course.
UNIVERSITY GRADING OPTIONS

Individual schools may elect to offer one of the following grade options for its courses:

- **LG** Letter Grade
- **H/S/U** Honors/Satisfactory/Unsatisfactory
- **S/N** Satisfactory/Audit
- **LG and H/S/U** Letter Grade & Honors/Satisfactory/Unsatisfactory
- **LG and S/N** Letter Grade & Satisfactory/Audit

From among the grading options approved by the school, each department identifies those it deems acceptable for its courses. Furthermore, each course instructor may specify, within the grading options approved by the school and department, which grading options may be selected by students taking his or her course.

Students should choose a grading option from those listed with the course in the *Schedule of Classes*. Grade Option/Audit Request forms for graduate courses are not required and will not be accepted by the Office of the Registrar. Schools establish their own deadlines and procedures for processing grade option and audit requests.

Students receive the grade **H** or **S** for satisfactory work and **U** for unsatisfactory work. The grades **H** and **S** are counted toward graduation but not the student’s GPA. The grades **N** and **U** are not counted toward graduation or the GPA. The **S** grade indicates adequate graduate attainment; in evaluating thesis or dissertation research, an instructor may only use the **S/N** grading option.

Students may audit a course and receive an **N** grade with the consent of the instructor and school offering the course. However, to audit a course, a student must register and pay tuition for the course. The **N** grade is not counted toward graduation or the GPA.

LETTER GRADES

The University’s letter grade system for graduate courses (not first-professional) is as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.00 Superior Attainment</td>
</tr>
<tr>
<td>A</td>
<td>4.00 Superior Attainment</td>
</tr>
<tr>
<td>A-</td>
<td>3.75</td>
</tr>
<tr>
<td>B+</td>
<td>3.25 Adequate graduate-level attainment</td>
</tr>
<tr>
<td>B</td>
<td>3.00 Adequate graduate-level attainment</td>
</tr>
<tr>
<td>B-</td>
<td>2.75</td>
</tr>
<tr>
<td>C+</td>
<td>2.25 Minimal graduate-level attainment</td>
</tr>
<tr>
<td>C</td>
<td>2.00 Minimal graduate-level attainment</td>
</tr>
<tr>
<td>C-</td>
<td>1.75</td>
</tr>
<tr>
<td>D+</td>
<td>1.25</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>D-</td>
<td>0.75</td>
</tr>
<tr>
<td>F</td>
<td>0.00 Failure</td>
</tr>
</tbody>
</table>

Courses in the first-professional programs (DDM, JD, LLM, MD, PharmD) use a different letter grade system; students should refer to the relevant school’s text in the First-Professional Programs section of this bulletin.

OTHER GRADES: INCOMPLETE, WITHDRAW, RESIGN

Upon a student’s completion of a course, one of the grades listed below may appear on the student’s transcript in lieu of one of the options selected by the student and/or instructor under University Grading Options. None of these grades carries quality points. Students should consult with their individual school for information on any school-specific regulations regarding these grades.

G GRADE

The **G** grade signifies unfinished course work due to extenuating personal circumstances. Students assigned **G** grades are required to complete course requirements no later than one year after the term in which the course was taken. After the deadline has passed, the **G** grade will remain on the record, and the student will be required to re-register for the course if it is needed to fulfill requirements for graduation.

I GRADE

The **I** grade signifies incomplete course work due to nature of the course, clinical work, or incomplete research work in individual guidance courses or seminars.

W GRADE

The **W** grade signifies that a student withdrew from course. *See Withdrawing from Courses for more information.*

R GRADE

The **R** grade indicates that a student has resigned from the University. *See Resigning from the University for more information.*

Z GRADE

The **Z** grade indicates that an instructor has issued an invalid grade.

REPEATING COURSES

A student may repeat any course in which a grade of **B-** or lower is received if an authorization to repeat the course is given by the student’s advisor and/or department. A school may restrict the type and/or number of different courses that may be repeated during one degree program. The grade earned by repeating a course is used in lieu of the grade originally earned, although the original grade is not erased from the transcript. No course may be repeated more than twice. No sequence course may be repeated for credit after a more advanced course in that sequence has been passed with a **B** or higher grade. The repeated course must be the same as that in which the original grade was earned. In extenuating circumstances, a department chair, with the dean’s approval, may substitute another course of similar content. Grades of **W**, **R**, or **N** reported for the repeated course will not be counted as a course repeat. To initiate only the last course grade being computed in the GPA, a Course Repeat Form must be filed with the dean’s office.

CHANGING GRADES

Only the instructor of a course may change a student’s grade by submitting a Change of Grade Card. All grade changes require the authorization of the dean of the school from which the original grade was issued. While each school may determine a time limit for grade changes, they should be processed no later than one year after the initial grade was assessed. Changes in I grades are exempt from this one-year policy.
**ACADEMIC RECORD**

The academic record is not an official University transcript, but a document containing a student’s complete University of Pittsburgh academic history. In addition to the information provided on the transcript (as listed below), the academic record provides students and advisors with admission data, academic events, and advanced standing/placement/transfer credit information. Students with no outstanding financial obligations to the University can receive one free copy of their academic records each term in G-3 Thackeray Hall. For more information, send E-mail to transcert@pdc.srfs.pitt.edu.

**GRADE REPORT**

At the end of each term, a grade report is prepared by the Office of the University Registrar and mailed to the student, provided that all charges have been paid. This report shows the total credits carried, the grade received in each course, and total quality points earned. Shortly after the term ends, students can also access their grades online via the secure server at http://student-info.pitt.edu/.

**TRANSCRIPTS**

An academic transcript serves as a permanent record of a student’s academic progress. The transcript is a cumulative record of the student’s QPA, as well as a record of the department, title, and grade for each course in which the student has enrolled. Students may request an official transcript that bears the seal of the University of Pittsburgh and the signature of the University Registrar at a cost of $3.00 per copy. Currently enrolled students may also receive one free unofficial copy of their transcript per term for personal use. Upon graduation, the transcript reflects a student’s degree and date; major; and, if applicable, honors, area of concentration, and minor.

**ACADEMIC HONORS**

Schools and programs may recognize academic achievement by students through fellowships, scholarships, and other awards. Students should consult with their individual school and/or program for more information.

**PROBATION, SUSPENSION, AND DISMISSAL**

Students who fail to make satisfactory progress may be subject to academic probation and/or suspension and dismissal. Students who have completed at least nine quality point credits and whose QPA falls below 3.00 will be placed on academic probation by the dean of their school. After a certain period of time on academic probation (the period is determined by the student’s school), a student is subject to academic suspension and restricted from registering for classes in that school. Details of the school’s probation system are available through that school.

**EFFECT ON FINANCIAL AID AND SCHOLARSHIPS**

Conditions for loan eligibility and many scholarships (including those for teaching assistants, teaching fellows, graduate student assistants, and graduate student researchers) usually require students to complete a specified number of credits each year and maintain a specified quality point average (QPA: credits counting toward the degree). Questions about the effect of unsatisfactory academic standing on loans should be directed to the Office of Admissions and Financial Aid in the Masonic Temple (4227 Fifth Avenue) at (412) 624-7488. Questions about the effect of unsatisfactory academic standing on scholarships, including teaching and research assistantships, should be directed to the particular graduate school.

**EDITORIAL ASSISTANCE AND PUBLICATION OF THESE/DISSERTATIONS**

All graduate students must follow University regulations regarding editorial assistance and publishing of theses and dissertations as detailed below.

**EDITORIAL ASSISTANCE**

A student preparing a dissertation or other written work as part of academic requirements may, when appropriate, use the assistance of professional editors, provided that the following rules are observed:

1. The student receives the approval of the research advisor or professor of the course in which written work is being submitted.
2. The student receives assistance only in use of language and not in the subject matter of the written work.
3. The student acknowledges and describes all editorial assistance in the report.

**PUBLICATION OF THESE/DISSERTATIONS**

Any thesis or dissertation may be published, either by the University or through an outside agency, provided due credit is given the University. No form of publication, however, will relieve the student of his or her responsibility to supply the proper abstract and the specified number of complete copies of the thesis or dissertation for binding and deposit in the University Library System.

The doctoral candidate is required to execute an agreement with University Microfilms, Inc. for the publication of the dissertation on microfilm (see Regulations Pertaining to Doctoral Degrees, page 23).

Advisors should exercise responsibility in approving research topics that will not endanger long-term research projects or the safety or welfare of informants. Dependent upon the circumstances and the research point at which the danger is recognized, the provost’s office may authorize a delay in publication of a dissertation for up to a maximum of one calendar year. Similarly, a publication may be withheld for a maximum of six months, if required, for filing a patent application.

**REGULATIONS PERTAINING TO MASTER OF ARTS AND MASTER OF SCIENCE DEGREES**

The Master of Arts (MA) and Master of Science (MS) degree programs provide an introduction to scholarly activities and research and often serve as preparation for teaching careers. These degrees are awarded for the completion of a coherent program designed to assure the mastery of specified knowledge and skills, rather than a random accumulation of a certain number of courses. The overall form and content of the student’s program of study is the responsibility of the faculty of the department. To carry out this responsibility, each student must be assigned a major advisor, who, in consultation with the student, plans a program of study and research in accord with school and departmental guidelines.
MA AND MS REQUIREMENTS

The Master of Arts and Master of Science degrees normally require the satisfactory completion of approximately 30 credits of graduate study approved by the department or school. No Master of Arts or Master of Science degree program may require fewer than 24 course credits. Not more than six credits may be granted toward the completion of the requirements for a master’s degree for work completed at another accredited graduate institution or for work previously completed at the University of Pittsburgh. See Acceptance of Transfer Credits on page 17 for further information.

At least four courses (12 credits) or one-half the master’s degree program, whichever is greater, must be at the graduate-level (the 2000 or 3000 series) and must be completed with an average grade of B (3.00). No course numbered below 1000 may be applied toward graduate degree requirements.

Some master’s programs may include approved areas of concentration or minors. Areas of concentration define and describe the student’s specialty. Such areas of concentration or minors are added to the transcript upon the granting of the degree.

Master’s degrees are conferred only on those students who have completed all courses required for the degree with an average grade of B (i.e., a 3.00 QPA).

The requirement of proficiency in foreign languages is at the discretion of individual departments or schools.

Departments provide students with a copy of school and departmental regulations appropriate for their program. Students are expected to become familiar with these and to satisfy all prescribed degree requirements.

COMPREHENSIVE EXAMINATION

MA or MS degrees are conferred only upon those students who, in one or more comprehensive examinations or the equivalent, show that they have mastered the general field of their graduate study. Each department or similar unit is responsible for specifying the content and procedure for administration of the comprehensive examination and will specify for each candidate the field of his or her examination, which may vary from student to student. When a program substitutes an equivalent requirement for the comprehensive examination, the department should notify the University Council on Graduate Study and describe the substitution.

Students on inactive, special, or provisional status or on probation are not eligible to take a comprehensive examination. These examinations must be taken at least one month prior to the last day of the term in which the degree is to be granted. The results must be reported promptly to the office of the dean but no later than the last day of the term in which the examination is administered. A student who is unable to complete all degree requirements within a two-year period after passing the comprehensive examination may be re-examined at the discretion of the department or school.

THESIS OPTION

The requirement of a thesis or its equivalent is at the discretion of individual departments or schools. If a thesis is submitted, its form must be in accord with specifications stipulated in the University Style and Form Manual. Each candidate must provide a suitable number of copies of the thesis for review and use as designated by the thesis examining committee, consisting of at least three members of the faculty recommended by the major advisor and approved by the department chair. The final oral examination in defense of the master’s thesis is conducted by the thesis committee, and a report of this examination signed by all members of the committee must be filed in the office of the dean. After the examination, at least one copy of the approved thesis must be deposited with the dean, who forwards it to the appropriate offices for microfilming and deposit in the University Library System. A receipt for the thesis binding/microfilming fees must be submitted with the thesis.

NON-THESIS OPTION

It is usual for a program to require additional course work if a thesis is not required.

For the Master of Arts degree, students must acceptably describe, in writing, one or more substantial intellectual experiences or accomplishments. In programs in which a master’s thesis is optional, the student must satisfy this requirement by submitting a paper (or papers), as designated by the major department, and must demonstrate competence in using methods of scholarship.

For the Master of Science degree, a paper or research project is usually required.

REGULATIONS PERTAINING TO PROFESSIONAL MASTER’S DEGREES

The professional master’s degree programs are generally similar to those for the MA and MS except that they emphasize instruction in professional affairs and practice and serve as preparation for careers in the professions. The program of study is a coherent program designed to assure the mastery of specified knowledge and skills, rather than a random accumulation of a certain number of courses. The overall form and content of the student’s program of study is the responsibility of the student’s department or school. To carry out this responsibility, each student must be assigned a major advisor, who, in consultation with the student, plans a program of study and research in accord with school and departmental guidelines.

PROFESSIONAL MASTER’S DEGREE REQUIREMENTS

Professional master’s degrees are conferred upon those students who demonstrate comprehensive mastery of their general field of study. The professional master’s degrees normally require the satisfactory completion of more than 30 credits of graduate study approved by the department. No professional master’s degree program may require fewer than 30 credits. No more than one-third of the total number of required credits may be granted to a student as transfer credit for work done at another accredited graduate institution. (See Acceptance of Transfer Credits, page 17, for further detail.) At least one-half of the credits earned in a master’s degree program must be at the graduate
level (the 2000 or 3000 series). No courses numbered below 1000 may be applied toward graduate degree requirements. Master’s degrees are conferred only on those students who have completed all course requirements with at least a 3.00 QPA.

Most professional master’s degree programs provide opportunities for theoretical studies and practical applications. Students are expected to acquire professional skills through course work, projects, internships, practica, and/or research papers as part of demonstrating their comprehensive mastery of their field of study.

Requirements vary from school to school. Departments provide students with a copy of school and departmental regulations appropriate for their programs. Students are expected to become familiar with these and to satisfy all prescribed degree requirements.

Professional master’s degrees are conferred upon those students who demonstrate comprehensive mastery of the general field of study. This includes: (a) satisfactory completion of all course requirements and (b) other performances that indicate comprehensive mastery such as examinations, internships, research projects, theses, and practica. These requirements vary from school to school; students should refer to the specific requirements of their program in the Schools, Departments, and Programs section of this bulletin.

■ REGULATIONS PERTAINING TO DOCTORAL DEGREES

While the regulations governing doctoral study in this section represent university-wide policy, students should check the Schools, Departments, and Programs section of this bulletin and with their advisor for any expansions of or exceptions to these rules.

ADMISSION TO DOCTORAL STUDY

In some departments, the requirements for admission to graduate study and for admission to doctoral study are identical, while other departments require the completion of a master’s degree or its equivalent as a prerequisite for admission to doctoral study. Admission to doctoral study does not include any implication concerning admission to candidacy for the Doctor of Philosophy degree.

Normally, only one major department of graduate study is permitted for the PhD degree. However, a few formal interdisciplinary programs and, under some circumstances, some independently designed interdisciplinary doctoral programs are available (see Interdisciplinary Doctoral Programs, page 26).

PROGRAMS OF STUDY

PhD programs offered at the University of Pittsburgh provide a coherent series of courses, seminars, and discussions designed to develop in the student a mature understanding of the content, methods, theories, and values of a field of knowledge and its relation to other fields. Each program trains the student in the methods of independent research appropriate to the discipline and provides an advisor and a committee to guide the student in an extended investigation of an original and independent research project of significance in the field.

The overall form and content of each student’s program is the responsibility of the Graduate Faculty of the department. To carry out this responsibility, the departments must ensure that each student has a major advisor who, in consultation with the student, plans a program of study and research in accord with school and departmental guidelines. The advisor may prescribe additional courses both within and outside the department that are essential and/or appropriate to the student’s program.

Some doctoral programs may include approved areas of concentration used to define and describe the student’s training and expertise within the broader discipline. Such an area of concentration is added to the transcript upon the granting of the degree.

Doctoral level courses are numbered in the 3000 series, but courses numbered in the 2000 series may also be appropriate for doctoral study. Normally, courses numbered below 2000 do not meet the minimum requirements for doctoral study, although they may be taken to supplement a doctoral program.

Students must maintain a minimum cumulative QPA of 3.00 in courses to be eligible to take the preliminary and comprehensive examinations as well as to graduate.

The requirement of proficiency in the use of foreign languages or other tools of research is at the discretion of individual departments or schools.

Departments provide students with a copy of school and departmental regulations appropriate for their program and, in turn, students are expected to become familiar with these and to satisfy all prescribed degree requirements.

CREDIT REQUIREMENTS

The minimum credit requirement for the PhD degree is met by six terms of registration as a graduate student for 12 or more credits per term or the equivalent number of credits taken in a reduced load over a longer period of time. If the school requires completion of its master’s degree program prior to admission into its doctoral program, at least four terms of registration for 12 or more credits per term or the equivalent number of credits in a reduced load are required as a minimum for the PhD degree. No more than 30 credits may be accepted for a master’s degree awarded by another institution to meet the minimum credit requirement; some schools have more stringent requirements, including the Faculty of Arts and Sciences and the Graduate School of Public Health, both of which will accept only 24 credits for a master’s degree awarded by another institution.

In recognition of graduate study beyond the master’s degree successfully completed elsewhere, no more than 12 additional credits may be accepted at the time of admission to meet the minimum credit requirement. (See also Acceptance of Transfer Credits, page 17.) No more than 30 credits may be accepted for a previously earned PhD degree in recognition of master’s degree work, though some schools have more stringent requirements, including the following:

- The Faculty of Arts and Sciences accepts only 24 credits from a previously earned PhD in recognition of master’s degree work.

- The Graduate School of Public Health accepts only six credits from a previously earned PhD degree in recognition of its students’ work towards its Master of Science programs. Also, its students working towards the Master of Public Health may use credits from a previously earned PhD to satisfy no more than one-third of the required credits for the MPH.
Graduate students already enrolled may, when approved in advance by their department and the dean, spend a term or more at another graduate institution to obtain training or experience not available at the University of Pittsburgh and transfer those credits toward the requirements for an advanced degree at the University of Pittsburgh. In all cases, at least three terms, or 36 credits, of full-time doctoral study or the equivalent in part-time study must be successfully completed at the University of Pittsburgh.

RESIDENCY REQUIREMENT

Students seeking the PhD degree are required to engage in a minimum of one term of full-time doctoral study, which excludes any other employment except as approved by their departments.

PRELIMINARY EVALUATION

The preliminary evaluation should be designed to assess the breadth of the student’s knowledge of the discipline, the student’s achievement during the first year of graduate study, and the potential to apply research methods independently. The form and nature of the evaluation should be approved at the school level. It should be conducted at approximately the end of the first year of full-time graduate study. The evaluation is used to identify those students who may be expected to complete a doctoral program successfully and also to reveal areas of weakness in the student’s preparation. Evaluation results must be reported promptly to the dean’s office, but no later than the last day of the term in which the evaluation occurs. A student on provisional, inactive, or special status or on probation is not eligible to take the preliminary evaluation.

COMPREHENSIVE EXAMINATION

The comprehensive examination should be designed to assess the student’s mastery of the general field of doctoral study, the student’s acquisition of both depth and breadth in the area of specialization within the general field, and the ability to use the research methods of the discipline. In some programs, the comprehensive examination is combined with the overview or prospectus meeting. It should be administered at approximately the time of the completion of the formal course requirements and should be passed at least eight months before the scheduling of the final oral examination and dissertation defense. In no case may the comprehensive examination be taken in the same term in which the student is to graduate. Examination results must be reported promptly to the dean’s office but no later than the last day of the term in which the examination is administered. A student who is unable to complete all degree requirements within a five-year period after passing the comprehensive examination may be re-examined at the discretion of the department or school. A student on provisional, inactive, or special status or on probation is not eligible to take the comprehensive examination.

DOCTORAL COMMITTEE

Before the student is admitted to candidacy for the PhD degree, the student’s major advisor proposes, for the approval of the department chair or director of the school’s doctoral program and the dean, a committee of four or more persons, including at least one from another department in the University of Pittsburgh or from an appropriate graduate program at another academic institution, to serve as the doctoral committee. The majority of the committee, including the major advisor, must be full or adjunct members of the Graduate Faculty (see http://www.pitt.edu/~graduate for most recent Graduate Faculty roster). This committee must review and approve the proposed research project before the student may be admitted to candidacy.

This doctoral committee has the responsibility to advise the student during the progress of the candidate’s research and has the authority to require high quality research and/or the rewriting of any portion or all of the dissertation. It conducts the final oral examination and determines whether the dissertation meets accepted standards.

Meetings of the doctoral candidate and his/her dissertation committee must occur at least annually from the time the student gains admission to doctoral candidacy. During these meetings, the committee should assess the student’s progress toward the degree and discuss objectives for the following year and a timetable for completing degree requirements. It is the responsibility of the dean of each school to determine a mechanism for monitoring the occurrence of these annual reviews.

The membership of the doctoral committee may be changed whenever it is appropriate or necessary, subject to the approval of the department chair and the dean.

When a doctoral committee member leaves the University, he or she must be replaced unless the dissertation is almost complete or the member has an essential role on the committee. In the latter case, the dean’s approval should be obtained. When the chair of a committee leaves and cannot be conveniently replaced, a co-chair must be appointed from within the department, and the restructured committee requires the approval of the dean and either the department chair or the director of the school’s doctoral program. If the defense takes place within a few months of the chair’s departure, the requirement of the co-chair is usually waived.

A retired faculty member may remain as a member or chair of a committee if he or she is spending considerable time in Pittsburgh or the vicinity and is still professionally active. Retired faculty who meet these criteria may also be appointed as a member or as a co-chair (but not chair) of a newly formed committee. Retired faculty who leave the Pittsburgh area and/or do not remain professionally active should be replaced on committees and the revised committee approved by the dean and either the department chair or the school’s director of doctoral programs.

OVERVIEW OR PROSPECTUS MEETING

Each student must prepare a dissertation proposal for presentation to the doctoral committee at a formal dissertation overview or prospectus meeting. The overview requires the student to carefully formulate a plan and permits the doctoral committee members to provide guidance in shaping the conceptualization and methodology of that plan. The doctoral committee must unanimously approve the dissertation topic and research plan before the student may be admitted to candidacy for the doctoral degree. Approval of the proposal does not imply either the acceptance of a dissertation prepared in accord with the proposal or the restriction of the dissertation to this original proposal. If the research proposed in the overview or prospectus involves human subjects, that proposed research must be approved by the University Institutional Review Board (IRB) before it may be carried out. For details, see Human Research Subjects: Institutional Review Board under Rights and Responsibilities on page 28, and a description of the Institutional Review Board on page 28.
ADMISSION TO CANDIDACY FOR THE DOCTOR OF PHILOSOPHY DEGREE

Admission to candidacy for the Doctor of Philosophy degree constitutes a promotion of the student to the most advanced stage of graduate study and provides formal approval to devote essentially exclusive attention to the research and the writing of the dissertation. To qualify for admission to candidacy, students must fulfill the following requirements:

• Be in full graduate status
• Have satisfied the requirement of the preliminary evaluation
• Have completed formal course work with a minimum quality point average of 3.00
• Have passed the comprehensive examination
• Have received approval of the proposed subject and plan of the dissertation from the doctoral committee following an overview or prospectus meeting of the committee

In some schools, admission to candidacy is a prerequisite to registration for dissertation credits. Students are informed of admission to candidacy by written notification from the dean, who also states the approved doctoral committee’s composition.

REGISTERING FOR FULL-TIME DISSERTATION STUDY

Doctoral students who have completed all credit requirements for the degree, including any minimum dissertation credit requirements, and are working full-time on their dissertations may register for Full-Time Dissertation Study, which carries no credits or letter grade but provides students full-time status. Students so enrolled are assessed a special tuition fee but are still responsible for the full-time computer and network, security/transportation, student health, and activity fees. Students must consult with the dean’s office of their school for permission to register for full-time dissertation study.

DISSERTATION AND ABSTRACT

Each student must write a dissertation that presents the results of his or her research project. An appropriate research project involves a substantive piece of original and independent research grounded in an appropriate body of literature. The dissertation must be relevant to an identifiable field as it is currently practiced, present a hypothesis tested by data and analysis, and provide a significant contribution or advancement in that field. It is the responsibility of the student’s doctoral committee to evaluate the dissertation in these terms and to recommend the awarding of the doctoral degree only if the dissertation is judged to demonstrate these qualities.

A dissertation should demonstrate the following characteristics:

• The establishment of a historical context for the presentation of an innovative and creative approach to the problem analysis and solution
• A clear understanding of the problem area as revealed by analysis and synthesis of a broad literature base
• A well-defined research design
• Clarity in composition and careful documentation
• Results of sufficient merit to be published in refereed journals or to form the basis of a book or monograph
• Sufficient detail so that other scholars can build on it in subsequent work
• The preparation of the author to assume a position within the profession

If the dissertation is the result of a collaborative research effort, the project should be structured in such a way that the student’s dissertation results from one clearly identified piece of work in which the student has unquestionably supplied the major effort. The contributions of the student and the other collaborators must be clearly identified.

Published articles authored by the student and based on research conducted for the dissertation study may be included in the dissertation if the student’s department and school have a written policy that this is acceptable. In any case, the published work must be logically connected and integrated into the dissertation in a coherent manner, and sufficient detail must be presented to satisfy the characteristics of a dissertation. The student should be the sole or primary author of the published work. If the published articles were co-authored, the contribution of the student must be clearly delineated in the introduction so the committee can ascertain that the student’s own work satisfies the requirements of a dissertation. The Style and Form Manual gives instructions on incorporating articles into the dissertation.

Candidates for the doctoral degree must provide a suitable number of copies of the dissertation, as determined by the doctoral committee and school policy, for review and use during the final oral examination. The general format of the dissertation and the abstract is determined by the Office of the Provost and is set forth in the University’s Style and Form Manual. Specific instructions should be available in the office of the dean of the school. After the final oral examination is successfully completed, the candidate must deposit with the dean at least one copy of the approved, completed dissertation and abstract in final form, at least two additional copies of the dissertation abstract, and a receipt for payment of the dissertation binding/microfilm fees. The candidate is also required to execute an agreement with University Microfilms Inc. for the publication of the dissertation on microfilm and for the publication of the abstract of the dissertation in Dissertation Abstracts.

LANGUAGE OF THE DOCTORAL DISSERTATION

The language in which doctoral dissertations are written shall normally be English. Exceptions may be granted by the student’s dean with the approval of the dissertation advisor and committee, but only for sound reasons of scholarship. Permission shall never be granted on the grounds of the student’s inadequate command of English.

FINAL ORAL EXAMINATION

The final oral examination in defense of the doctoral dissertation is conducted by the doctoral committee and need not be confined to materials in and related to the dissertation. Any member of the Graduate Faculty of the University may attend and participate in the examination. The date, place, and time of the examination should be published well in advance in the University Times. Other qualified individuals may
be invited by the committee to participate in the examination. Only
members of the doctoral committee may be present during the final
deliberations and vote on the passing of the candidate. A report of this
examination, signed by all the members of the doctoral committee, must
be sent to the dean. If the decision of the committee is not unanimous,
the case is referred to the dean for resolution. The chair of the doctoral
committee should ensure that the dissertation is in final form before
requesting signatures of the members of the committee.

INTERDISCIPLINARY DOCTORAL PROGRAMS

A student may be admitted into one of two types of interdisciplinary
doctoral programs, generic and individualized.

GENERIC PROGRAMS

Generic programs are ongoing, formally structured, and approved
doctoral programs. Admission to these programs follows the same
procedures as those of departmental programs.

INDIVIDUALIZED PROGRAMS

Individualized programs are specially designed to permit an
exceptionally able student who has earned a master’s degree or the
equivalent to pursue an interdisciplinary doctoral program structured
to satisfy his or her unique goals. Such students should apply to the
dean of the school if the departments involved in the proposed program
are organized within one school or to the provost if the departments
are organized within more than one school. The student must satisfy
the admission requirements of each of the departments or schools
involved in the proposed program.

If the request is approved, the dean or the provost, in consultation
with the departments concerned, will designate five members from
these departments to serve as an advisory committee. After these
advisors meet with the student, a chief advisor is selected to assume
responsibility for general guidance to the student. These advisors
continue their responsibility until the student is admitted to candidacy
for the PhD degree and may, if it is appropriate, continue as the doctoral
committee for this student.

OTHER DOCTORAL DEGREES

The University of Pittsburgh, through its professional schools, offers
the following doctoral degrees in professional fields of study: Doctor
of Education and Doctor of Public Health.

These doctoral degree programs are similar to those for the PhD in
the degree of rigor required; the minimum total credit requirements
and permissible transfer credits; the requirements for the successful
completion of a preliminary evaluation and a comprehensive
examination; the admission to doctoral candidacy; the nomination of
a doctoral committee; the preparation of the dissertation and abstract;
the publication of the dissertation; and the successful completion of
the final oral examination. Professional doctoral dissertations are
usually based on an in-depth empirical research project by the student
and are intended to permit the student to apply relevant theory and
knowledge as well as to demonstrate skills in analysis of a major
problem and to contribute to the improvement of practice in the
student’s area of specialization.

Such doctoral degree programs may differ from those for the PhD in
several ways. They are generally more strongly focused on professional
affairs and practice and often serve as preparation for or advancement
of careers in the professions.

STATUTE OF LIMITATIONS/LEAVES
OF ABSENCE

The purpose of the statute of limitations is to ensure that a graduate
degree from the University of Pittsburgh represents mastery of current
knowledge in the field of study. Individual schools within the
University may adopt policies that are more stringent, but not less,
than those stated here.

All requirements for MA and MS degrees must be completed within
a period of four consecutive calendar years from the student’s initial
registration for graduate study; all professional master’s degrees, within
five years. Dual degrees and joint degrees that require course work in
excess of 50 credit hours may be granted a longer statute of limitations
by the University Council on Graduate Study.

From the student’s initial registration for graduate study, all
requirements for the PhD degree must be completed within a period
of ten years, or within eight years if the student has received credit for
a master’s degree appropriate to the field of study. A student who is
unable to complete all degree requirements within a five-year period
after passing the comprehensive examination may be re-examined at
the discretion of the department or school. Programs for professional
doctoral degrees, for which the majority of candidates pursue part-
time study while working full-time within their chosen disciplines,
may be granted a longer statute of limitations by the schools offering
the degrees.

Under exceptional circumstances, a candidate for an advanced degree
may apply for an extension of the statute of limitations. The request
must be approved by the department or departmental committee
(master’s or doctoral) and submitted to the dean for final action.
Requests for an extension of the statute of limitations must be
accompanied by a departmental assessment of the work required of
the student to complete the degree as well as documented evidence of
the extenuating circumstances leading to the requested extension.
Students who request an extension of the statute of limitations must
demonstrate proper preparation for the completion of all current degree
requirements.

Under special conditions, graduate students may be granted one leave
of absence. A maximum leave of two years may be granted to doctoral
students or one year to master’s students. The length and rationale for
the leave of absence must be stated in advance, recommended to the
dean by the department, and approved by the dean. If approved, the
time of the leave shall not count against the total time allowed for the
degree being sought by the student. Readmission following an
approved leave of absence is a formality.

GRADUATION

REQUIREMENTS FOR GRADUATION

Graduation requirements for MA, MS, professional master’s, and
doctoral degrees are described earlier in this bulletin under the relevant
sections detailing the regulations pertaining to each degree. In order
to graduate from the University of Pittsburgh, a graduate student must
be an active University of Pittsburgh student registered for at least
one credit or full-time dissertation study in the term of graduation.
See specific schools and programs for detailed information on degree
and graduation requirements.
APPLICATION TO GRADUATE

Students must file an application for graduation in the dean’s office of their school early in the term in which graduation is expected. Each school establishes its own deadline by which students must apply for graduation. Students should check with their dean’s office for the deadline. As noted above, students must be active and registered in the term in which they are to graduate; in exceptional circumstances, students who complete all the degree requirements at the end of a term but graduate in the next term may petition the dean of the school for a waiver of this registration requirement. The requirement that a student be on active status cannot be waived.

Prior to the end of the term in which they graduate, all doctoral candidates must submit to the dean’s office a completed Survey of Earned Doctorates.

CERTIFICATION FOR GRADUATION

The Graduate Faculty of the department or program evaluates the performance of the student. If that performance is satisfactory, a report should be submitted to the dean certifying that the candidate has satisfactorily completed all departmental requirements for a graduate degree. The dean, after confirming that the overall school and University requirements have been met, certifies the candidate for graduation.

COMMENCEMENT

Candidates for graduation are encouraged to appear in person at the Annual Commencement Convocation, usually held the Sunday after the Spring Term ends. Although the degree is officially conferred at commencement, diplomas are mailed to graduates several weeks later.

RIGHTS AND RESPONSIBILITIES

The University has a number of official policies affecting students. For complete current text on all University policies, please see http://www.pitt.edu/HOME/PP/pp_handbooks.html.

The information below summarizes several key University-wide policies affecting graduate students, but students are also responsible for being cognizant of those University, school, and departmental regulations relevant to their programs of study.

ACADEMIC INTEGRITY POLICY

Students have the right to be treated by faculty in a fair and conscientious manner in accordance with the ethical standards generally recognized within the academic community (as well as those recognized within the profession). Students have the responsibility to be honest and to conduct themselves in an ethical manner while pursuing academic studies. Should a student be accused of a breach of academic integrity or have questions regarding faculty responsibilities, procedural safeguards including provisions of due process have been designed to protect student rights. These general procedures may be found in Guidelines on Academic Integrity: Student and Faculty Obligations and Hearing Procedures at http://www.pitt.edu/~graduate/ail.html. Individual schools have their own academic integrity policies, and students are encouraged to review these school-specific guidelines, as well.

AFFIRMATIVE ACTION AND NON-DISCRIMINATION POLICY

The University of Pittsburgh, as an educational institution and as an employer, values equality of opportunity, human dignity, and racial/ethnic and cultural diversity. Accordingly, the University prohibits and will not engage in discrimination or harassment on the basis of race, color, religion, national origin, ancestry, sex, age, marital status, familial status, sexual orientation, disability, or status as a disabled veteran or a veteran of the Vietnam era. Further, the University will continue to take affirmative steps to support and advance these values consistent with the University’s mission. This policy applies to admissions, employment, and access to and treatment in University programs and activities.

AIDS POLICY

The University of Pittsburgh does not discriminate against individuals who are diagnosed as HIV positive or as having AIDS. The University recognizes that the health condition of individuals is personal and confidential. Reasonable precautions will be taken to protect information regarding the health condition of all members of the University community. Based on medical evidence that indicates that there is no risk of transmitting HIV through casual contact in the classroom or circumstances involving only casual contact with others, the University will impose no undue restrictions on faculty, staff, or students who are infected with HIV.

For complete text on this policy, see http://www.pitt.edu/HOME/PP/policies/06/06-01-01.html.

COMPUTING USE POLICY

Every member of the University community has two basic rights regarding computing: privacy and a fair share of resources. It is unethical for another person to violate these rights. All users, in turn, are expected to exercise common sense and decency with regard to the campus computing resources. Please read Ethical Guidelines for Computing, available in campus computing labs or online at http://www.pitt.edu/~document/ethics/ethics.html, for details.

Students are subject to the rules and regulations as described in the University of Pittsburgh Student Code of Conduct (see below). Students should realize that any misuse of computing resources may result in the suspension of their computing privileges.

COPYRIGHT POLICY

The University of Pittsburgh affirms that, except as specifically exempted by this policy, faculty, staff, and students are entitled to claim copyright ownership, including world-wide rights, in the following works authored by them: books, articles, educational coursework, similar works that are intended to disseminate the results of academic research or scholarly study, popular fiction or nonfiction works, poems, musical compositions, and other works of artistic imagination.

The University has no proprietary interest in copyrightable materials produced by faculty, staff, or students under contract with entities external to the University (in which the faculty, staff, or students have no controlling or majority interest), except as specifically exempted by this policy. For complete text of the policies, including the aforementioned exemptions, see http://www.pitt.edu/HOME/PP/policies/11/11-02-02.html.
DRUG-FREE SCHOOL AND WORKPLACE POLICY

The University of Pittsburgh prohibits the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance on University property or as part of any University activity. Faculty, staff, and students of the University must also comply with the laws of the Commonwealth of Pennsylvania on the possession and consumption of alcohol.

Violation of this policy will result in disciplinary action within 30 days, including, but not limited to, a warning, written reprimand, suspension, dismissal, expulsion, and/or mandatory participation and successful completion of a drug abuse assistance or rehabilitation program approved by an appropriate health or law enforcement agency.

Any University employee paid from federally funded grants or contracts, or any students participating in any federally funded or Guaranteed Student Loan program, must notify the University of any criminal drug statute conviction for a violation occurring at the University or while engaged in University activities.

For complete text on this policy, see http://www.pitt.edu/EDUC/MAN/PP/policies/06/06-02-01.html.

FACULTY-STUDENT RELATIONSHIPS

The University’s educational mission is promoted by professional relationships between faculty members and students. Relationships of an intimate nature (that is, sexual and/or romantic) compromise the integrity of a faculty-student relationship whenever the faculty member has a professional responsibility for the student. The University prohibits relationships between a faculty member and a student whose academic work, teaching, or research is being supervised or evaluated by the faculty member.

If an intimate relationship should exist or develop between a faculty member and a student, the University requires the faculty member to remove himself/herself from all supervisory, evaluative, and/or formal advisory roles with respect to the student.

Definition Note: In this policy, the definition of “faculty member” refers to anyone appointed by the University as a teacher, researcher, or academic administrator, including graduate and undergraduate students so appointed. For complete text on this policy, see http://www.pitt.edu/DOC/94/271/42590/policies/02/02-04-03.html.

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT

In compliance with the Family Educational Rights and Privacy Act of 1974, commonly referred to as the Buckley Amendment, the University guarantees that students have the right to inspect all personally identifiable records maintained by the institution and may challenge the content and accuracy of those records through appropriate institutional procedures. It is further guaranteed by the University that student records containing personally identifiable information will not be released except as permitted by the Family Educational Rights and Privacy Act. See http://www.pitt.edu/~srfsweb/buckley.htm for more information on FERPA.

GRADUATE STUDENT RESEARCHER POLICY STATEMENT

Graduate Student Researchers (GSRs) at the University of Pittsburgh are graduate students who are receiving financial support from research funds in return for duties performed to meet the goals for which the funds were awarded. The research performed is also normally an integral part of the student’s research practicum experience, thesis, or dissertation. A primary goal of the appointment, from the point of view of both the University and the student, is to provide financial support to the graduate student. For the complete text of this GSR Policy Statement, refer to http://www.pitt.edu/~graduate/gsr.html.

HARASSMENT POLICIES

HARASSMENT

No University employee, student, or individual on University property may intentionally harass or abuse a person (physically or verbally) with the purpose or effect of unreasonably interfering with such person's work or academic performance, or of creating an intimidating, hostile, or offensive work or academic environment.

SEXUAL HARASSMENT

The University of Pittsburgh is committed to the maintenance of a community free from all forms of sexual harassment. Sexual harassment violates University policy as well as state, federal, and local laws. It is neither permitted nor condoned.

It is also a violation of the University of Pittsburgh’s policy against sexual harassment for any employee or student at the University of Pittsburgh to attempt in any way to retaliate against a person who makes a claim of sexual harassment.

Any individual who, after thorough investigation and an informal or formal hearing, is found to have violated the University’s policy against sexual harassment, will be subject to disciplinary action, including, but not limited to, reprimand, suspension, termination, or expulsion. Any disciplinary action taken will depend upon the severity of the offense.

For more information, see http://www.pitt.edu/~provost/har.html.

HUMAN RESEARCH SUBJECTS: INSTITUTIONAL REVIEW BOARD

The University of Pittsburgh is guided by the ethical principles regarding all research involving humans as subjects, as set forth in the report of the National Commission for the Protection of Human Subjects of Biomedical and Behavioral Research (entitled: Ethical Principles and Guidelines for the Protection of Human Subjects for Research [the “Belmont Report”]).

Most research at the University involving humans as subjects must be reviewed and approved by an Institutional Review Board (IRB) before the research will be allowed to proceed. For complete text of the IRB’s policies and practices, see http://www.irb.pitt.edu/ or contact the IRB at (412) 692-4370.

PATENT POLICY

A University student, during his/her period of enrollment, may be responsible for new discoveries and inventions that could have commercial value and contribute to scientific, technological, social, and cultural progress. Those accomplishments should be patented in the best interest of the student, the University, the public, and the government. The University’s policy on patents determines the rights and obligations of the student and the University in any technology the student may invent while enrolled in the University. Details of this University policy are available from the Office of Technology Transfer and Intellectual Property at 200 Gardner Steel Conference Center and at http://www.pitt.edu/EDUC/MAN/PP/policies/11/11-02-01.html.
RESEARCH INTEGRITY

The University of Pittsburgh seeks excellence in the discovery and dissemination of knowledge. Excellence in scholarship requires all members of the University community to adhere strictly to the highest standards of integrity with regard to research, instruction, and evaluation. Research misconduct carries potential for serious harm to the University community, to the integrity of science, and to society as a whole. The University’s Research Integrity Policy is available online at http://www.pitt.edu/DOC/94/271/42590/policies/11/11-01-01.html.

SMOKING POLICY

Smoking is prohibited in all University-owned and leased facilities, including residence halls and off-campus housing facilities, and in all University vehicles, including motor pool vehicles, campus buses, and vans, with explicit limited exceptions described in University Policy 04-05-03.

STUDENT CODE OF CONDUCT

The Student Code of Conduct is an outline of the non-academic rights and responsibilities of University students. The code defines offenses against students. A student or University official may file a complaint of violation of the Student Code of Contact at the University Student Judicial System Office. For a copy of the code, please contact the Judicial System Office in 738 William Pitt Union at (412) 648-7918 or see http://www.pitt.edu/~osa/web/usjs/code.html.

JUDICIAL SYSTEM

The Office of the University Student Judicial System coordinates the Campus Judicial Board. It also receives, previews, and acts upon complaints of violations of the Student Code of Conduct. Its purpose is to provide due process and fair treatment in disciplinary actions. All complaints should be filed here.

Judicial Affairs also conducts a Student Mediation Program, monitors FERPA (Family Educational Rights and Privacy Act) guidelines on student records, and screens requests for contact of students.

TEACHING ASSISTANT/TEACHING FELLOW/GRADUATE STUDENT ASSISTANT POLICY STATEMENT

Teaching Assistants (TAs), Teaching Fellows (TFs), and Graduate Student Assistants (GSAs) at the University are graduate students who are receiving support in return for specified duties while gaining teaching and teaching-related experience under the guidance of faculty mentors. Their primary objective, from the standpoint of the University and the individual, is to make steady progress toward an advanced degree. TA/TF/GSA appointment status is dependent upon graduate student status. The complete policy statement for TA/TF/GSAs is available at http://www.pitt.edu/~graduate/tapolicy.html.
Special academic opportunities such as certificate programs provide students with ways to augment their education and experience with expanded study programs both on and off campus, in both university and professional settings.

---

**AREA OF CONCENTRATION AND MINORS**

Some graduate programs may include approved areas of concentration or minors. Areas of concentration define and describe the student’s training and expertise within the broader discipline. Minors represent significant course work completed in an area related to the student’s specialty. An area of concentration that is specified for a particular degree program can only be posted to the academic record and the official transcript of those students completing the degree program. A graduate minor offered by the faculty at the Pittsburgh campus is available to any graduate student enrolled in an academic degree program on the campus provided that the school from which the student is graduating recognizes this minor. For each degree, only one minor and one area of concentration can be pursued. Areas of concentration or minors are added to the transcript upon the granting of the degree. See the Schools, Departments, and Programs section of this bulletin for available areas of concentration and minors.

---

**CERTIFICATE PROGRAMS**

Students may enrich their educational experience by electing to take an academic interdisciplinary certificate program in the areas listed at the start of the Schools, Departments, and Programs section of this bulletin (see page 31).

A certificate program at the graduate level is a coherent set of courses and related work in a particular area; the minimum credit requirement is 15 credits, of which 12 credits must be earned at the University of Pittsburgh. The certificate may appear on the transcript as a degree goal and will appear on the final transcript as an awarded certificate.

A student must be formally admitted into a certificate program. The requirements for each certificate vary and students should contact the certificate program director.

---

**CROSS REGISTRATION**

Carnegie Mellon University, Duquesne University, the Pittsburgh Theological Seminary, Robert Morris College, and the University of Pittsburgh offer graduate students the opportunity for cross registration in graduate programs in the five institutions in the Fall and Spring Terms. See Cross Registration in the Registration section of this bulletin for further details.

---

**TWO INDEPENDENT DEGREE PROGRAMS SIMULTANEOUSLY**

Students may pursue two independent graduate degrees simultaneously in two different schools within the University or two different departments within the same school. Students desiring to enroll in two degree programs must have approval from both program faculties and their respective deans, must be admitted into both programs, and must satisfy the degree requirements of both programs. Students are billed at the tuition rate of the primary academic program. Normally, such students should be enrolled for no more than a total of 15 credits per term.

The same examination, thesis, or dissertation cannot be used to fulfill requirements for two independent degrees, although a maximum of six credits of course work may be used in partial fulfillment of the requirements of both degrees. It is the responsibility of the dean or deans, if two schools are involved, to ensure that this regulation is enforced.

---

**COOPERATIVE-, DUAL-, AND JOINT-DEGREE PROGRAMS**

Dual- and joint-degree programs result in two degrees being awarded. Requirements for these programs include all or most of the requirements of two distinct academic degree programs. These programs may result in a student earning two separate master’s degrees, a master’s and a first-professional degree, or a master’s or first-professional degree and a doctoral degree, but never result in a student earning two separate doctoral degrees. Dual programs exist within a single school; joint programs exist between two or more schools; cooperative programs are administered by two or more institutions. The same course, examination, or thesis may be used to fulfill requirements only if so specified in the documents formally establishing the joint- or dual-degree program approved by the University.

Students must be admitted to both academic programs offering the dual or joint degrees being sought and must graduate from both degree programs at the same time. Students are advised to see the individual school for other specific requirements that apply.
Students who are interested in or accepted to any of the University of Pittsburgh's graduate or professional programs listed below other than those leading to the first-professional degrees offered by the University (MD, JD, LLM, PharmD, or DMD) will find useful most of the sections of this bulletin. Descriptions of the University, its regulations, and its services are included in the sections prior to the program-specific information in the Schools, Departments, and Programs section of the bulletin, and should be read in conjunction with the specific program information detailed under the relevant school.

Students interested in first-professional programs (MD, JD, LLM, PharmD, or DMD) can ignore much of the bulletin prior to the First-Professional Programs section, but should familiarize themselves with the general information on the University, as well as the section on Campus Facilities & Student Services, and the University-wide policies detailed in Rights and Responsibilities. The Schools of Medicine, Law, Dental Medicine, and Pharmacy appear in the Graduate Programs section for programs leading to the graduate and professional advanced degrees as well as in the First-Professional Programs section since these schools offer both types of programs. Faculty are listed by their department or program at the end of the school.

Students should note that the listings of requirements and procedures for admissions, registration, and other information listed in the sections prior to the more program-specific information provided in the Schools, Departments, and Programs section of this bulletin represent the minimum requirements and basic procedures. Students should consult the information on their specific school, program, and department for detail on additional, stricter, or more specific requirements and procedures.

### DEGREE- AND CERTIFICATE-GRANTING PROGRAMS

The University of Pittsburgh offers numerous graduate degrees, first-professional degrees, and certificates in its graduate and professional schools. These degree and certificate programs are listed below.

<table>
<thead>
<tr>
<th>Program</th>
<th>Degree(s) Offered</th>
<th>Academic Center¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Care Nurse Practitioner</td>
<td>MSN</td>
<td>Nursing</td>
</tr>
<tr>
<td>Administrative and Policy Studies</td>
<td>MA, MEd, EdD, PhD, Certificate</td>
<td>Education, Dental Medicine</td>
</tr>
<tr>
<td>Anatomy-Histology</td>
<td>Certificate</td>
<td>Dental Medicine</td>
</tr>
<tr>
<td>Anesthesiology</td>
<td>Certificate</td>
<td>FAS</td>
</tr>
<tr>
<td>Anthropology</td>
<td>MA, MS, Certificate</td>
<td>FAS, Business/FAS</td>
</tr>
<tr>
<td>Applied Mathematics</td>
<td>MBA/MA, Certificate</td>
<td>UCIUS</td>
</tr>
<tr>
<td>Applied Statistics</td>
<td>MS, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Area Studies</td>
<td>MPH</td>
<td>GSPH</td>
</tr>
<tr>
<td>Asian Studies</td>
<td>MS, PhD</td>
<td>Medicine</td>
</tr>
<tr>
<td>Astronomy</td>
<td>MSBeng, PhD</td>
<td>Engineering</td>
</tr>
<tr>
<td>Behavioral and Community Health Sciences</td>
<td>MS, PhD</td>
<td>GSPH</td>
</tr>
<tr>
<td>Biochemistry &amp; Molecular Genetics</td>
<td>MS, PhD</td>
<td>Medicine</td>
</tr>
<tr>
<td>Bioengineering</td>
<td>MPH</td>
<td>GSPH</td>
</tr>
<tr>
<td>Biostatistics</td>
<td>MS, PhD, DrPH</td>
<td>GSPH</td>
</tr>
<tr>
<td>Business Administration</td>
<td>MBA, PhD</td>
<td>Business</td>
</tr>
<tr>
<td>Cell Biology and Molecular Physiology</td>
<td>MS, PhD</td>
<td>Medicine</td>
</tr>
<tr>
<td>Cellular and Molecular Pathology</td>
<td>MS, PhD</td>
<td>Medicine</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>MSChE, PhD</td>
<td>Engineering</td>
</tr>
<tr>
<td>Chemistry</td>
<td>MS, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Civil &amp; Environmental Engineering</td>
<td>MSCE, PhD</td>
<td>Engineering</td>
</tr>
<tr>
<td>Civil Litigation</td>
<td>Certificate</td>
<td>Law</td>
</tr>
<tr>
<td>Classics</td>
<td>MA, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Clinical Cardiovascular Engineering</td>
<td>Certificate</td>
<td>Engineering</td>
</tr>
<tr>
<td>Clinical Research</td>
<td>MS, Certificate</td>
<td>Medicine</td>
</tr>
<tr>
<td>Communication Science and Disorders</td>
<td>MA, MS, PhD</td>
<td>SHRS</td>
</tr>
<tr>
<td>Computer Science</td>
<td>MS, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Cultural Studies</td>
<td>Certificate</td>
<td>FAS</td>
</tr>
<tr>
<td>Dental Medicine</td>
<td>DMD</td>
<td>Dental Medicine</td>
</tr>
<tr>
<td>East Asian Studies</td>
<td>MA</td>
<td>FAS</td>
</tr>
<tr>
<td>Eastern European Studies</td>
<td>Certificate</td>
<td>UCIS</td>
</tr>
<tr>
<td>Economics</td>
<td>MA, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Economic and Social Development</td>
<td>MPIA</td>
<td>GSPIA</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>MSEE, PhD</td>
<td>Engineering</td>
</tr>
<tr>
<td>Employee Assistance Program</td>
<td>Certificate</td>
<td>Social Work</td>
</tr>
<tr>
<td>Endodontics</td>
<td>Certificate, MDS</td>
<td>Dental Medicine</td>
</tr>
<tr>
<td>English</td>
<td>MA, MFA, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Environmental and Occupational Health</td>
<td>MS, MPH, PhD</td>
<td>GSPH</td>
</tr>
<tr>
<td>Environmental Health Risk Assessment</td>
<td>Certificate</td>
<td>GSPH</td>
</tr>
<tr>
<td>Environmental Law, Science, and Policy Epidemiology</td>
<td>Certificate</td>
<td>Law</td>
</tr>
<tr>
<td>Family and Marital Therapy</td>
<td>MPH, MS, DrPH, PhD</td>
<td>GSPH</td>
</tr>
<tr>
<td>Film Studies</td>
<td>Certificate</td>
<td>Social Work</td>
</tr>
<tr>
<td>French</td>
<td>MA, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Genetic Counseling</td>
<td>MA, PhD</td>
<td>GSPH</td>
</tr>
<tr>
<td>Geology and Planetary Science</td>
<td>MS, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Germanic Languages &amp; Literatures</td>
<td>Certificate</td>
<td>FAS</td>
</tr>
<tr>
<td>Gerontology</td>
<td>Certificate</td>
<td>Social Work</td>
</tr>
<tr>
<td>Global Political Economy</td>
<td>MPIA</td>
<td>GSPIA</td>
</tr>
<tr>
<td>Health Administration</td>
<td>MHA</td>
<td>GSPH</td>
</tr>
<tr>
<td>Health and Community Systems</td>
<td>MSN</td>
<td>Nursing</td>
</tr>
<tr>
<td>Health Law</td>
<td>Certificate</td>
<td>Law</td>
</tr>
<tr>
<td>Program</td>
<td>Degree(s) Offered</td>
<td>Academic Center¹</td>
</tr>
<tr>
<td>-----------------------------------------------------------------------</td>
<td>-------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Health, Physical, and Recreation Education</td>
<td>MS, PhD</td>
<td>Education</td>
</tr>
<tr>
<td>Health Promotion and Development</td>
<td>MSN</td>
<td>Nursing</td>
</tr>
<tr>
<td>Health Promotion and Education</td>
<td>MHPE</td>
<td>Education/GSPH</td>
</tr>
<tr>
<td>Health and Rehabilitation Sciences</td>
<td>MS</td>
<td>SHRS</td>
</tr>
<tr>
<td>Health Services Administration</td>
<td>DrPH</td>
<td>GSPH</td>
</tr>
<tr>
<td>Hispanic Languages &amp; Literatures</td>
<td>MA, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>History</td>
<td>MA, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>History &amp; Philosophy of Science</td>
<td>MA, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>History of Art &amp; Architecture</td>
<td>MA, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Human Genetics</td>
<td>MS, PhD</td>
<td>GSPH</td>
</tr>
<tr>
<td>Immunology</td>
<td>MS, PhD</td>
<td>Medicine</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>MSIE, PhD</td>
<td>Engineering</td>
</tr>
<tr>
<td>Infectious Diseases &amp; Microbiology</td>
<td>MPH, MS, DrPH, PhD</td>
<td>GSPH</td>
</tr>
<tr>
<td>Information Science</td>
<td>Certificate, MSIS, PhD SIS</td>
<td></td>
</tr>
<tr>
<td>Instruction and Learning</td>
<td>MA, MAT, MEd, MS, EdD, PhD</td>
<td>Education</td>
</tr>
<tr>
<td>Intelligent Systems</td>
<td>MS, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>International Business</td>
<td>MBA/MIB</td>
<td>Business</td>
</tr>
<tr>
<td>International and Comparative Law</td>
<td>LLM</td>
<td>Law</td>
</tr>
<tr>
<td>Italian Languages &amp; Literatures</td>
<td>MA</td>
<td>FAS</td>
</tr>
<tr>
<td>Latin American Social and Public Policy</td>
<td>Certificate</td>
<td>UCIS</td>
</tr>
<tr>
<td>Latin American Studies Law</td>
<td>Certificate</td>
<td>UCIS</td>
</tr>
<tr>
<td>Library and Information Science</td>
<td>JD</td>
<td>Law</td>
</tr>
<tr>
<td>Linguistics</td>
<td>Certificate, MLIS, PhD SIS</td>
<td></td>
</tr>
<tr>
<td>Management of Information Systems</td>
<td>MA, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Management Program for Health Professionals</td>
<td>Certificate</td>
<td>Nursing/GSPH</td>
</tr>
<tr>
<td>Manufacturing Systems Engineering</td>
<td>MSMISE</td>
<td>Engineering</td>
</tr>
<tr>
<td>Materials Science &amp; Engineering</td>
<td>MSMSE, PhD</td>
<td>Engineering</td>
</tr>
<tr>
<td>Mathematics</td>
<td>MA, MS, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Maxillofacial Prosthetics</td>
<td>Certificate</td>
<td>Dental Medicine</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>MSME, PhD</td>
<td>Engineering</td>
</tr>
<tr>
<td>Medicine</td>
<td>MD</td>
<td>Medicine</td>
</tr>
<tr>
<td>Medieval and Renaissance Studies</td>
<td>Certificate</td>
<td>FAS</td>
</tr>
<tr>
<td>Molecular Pharmacology</td>
<td>MS, PhD</td>
<td>Medicine</td>
</tr>
<tr>
<td>Molecular Virology &amp; Microbiology</td>
<td>MS, PhD</td>
<td>Medicine</td>
</tr>
<tr>
<td>Multidisciplinary MPH</td>
<td>MPH</td>
<td>(limited enrollment) GSPH</td>
</tr>
<tr>
<td>Music</td>
<td>MA, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Neurobiology</td>
<td>MS, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Neuroscience</td>
<td>MS, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Nurse Anesthesia</td>
<td>MSN</td>
<td>Nursing</td>
</tr>
<tr>
<td>Nursing</td>
<td>PhD</td>
<td>Nursing</td>
</tr>
<tr>
<td>Occupational Medicine</td>
<td>MPH</td>
<td>GSPH</td>
</tr>
<tr>
<td>Occupational Therapy</td>
<td>MOT</td>
<td>SHRS</td>
</tr>
<tr>
<td>Orthodontics</td>
<td>Certificate, MDS</td>
<td>Dental Medicine</td>
</tr>
<tr>
<td>Periodontics</td>
<td>MDS</td>
<td>Dental Medicine</td>
</tr>
<tr>
<td>Petroleum Engineering</td>
<td>MSPE</td>
<td>Engineering</td>
</tr>
<tr>
<td>Philosophy</td>
<td>MA, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Pharmaceutical Sciences</td>
<td>MS, PhD</td>
<td>Pharmacy</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>PharmD</td>
<td>Pharmacy</td>
</tr>
<tr>
<td>Physical Therapy</td>
<td>MPT</td>
<td>SHRS</td>
</tr>
<tr>
<td>Physics</td>
<td>MS, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Policy Research and Analysis</td>
<td>MPA</td>
<td>GSPIA</td>
</tr>
<tr>
<td>Political Science</td>
<td>MA, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Prosthodontics</td>
<td>MDS</td>
<td>Dental Medicine</td>
</tr>
<tr>
<td>Psychology</td>
<td>MS, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Psychology in Education</td>
<td>MA, MEd, PhD</td>
<td>Education</td>
</tr>
<tr>
<td>Public and International Affairs</td>
<td>PhD</td>
<td>GSPIA</td>
</tr>
<tr>
<td>Public and Nonprofit Management</td>
<td>MPA</td>
<td>GSPIA</td>
</tr>
<tr>
<td>Public Policy and Management</td>
<td>MPPM</td>
<td>GSPIA</td>
</tr>
<tr>
<td>Radiation Health</td>
<td>Certificate</td>
<td>GSPH</td>
</tr>
<tr>
<td>Rehabilitation Engineering</td>
<td>Certificate</td>
<td>Engineering</td>
</tr>
<tr>
<td>Rehabilitation Science</td>
<td>PhD</td>
<td>SHRS</td>
</tr>
<tr>
<td>Rehabilitation Technology</td>
<td>Certificate</td>
<td>SHRS</td>
</tr>
<tr>
<td>Religion (Cooperative Program in the study of)</td>
<td>JD</td>
<td>FAS</td>
</tr>
<tr>
<td>Religious Studies</td>
<td>MA</td>
<td>FAS</td>
</tr>
<tr>
<td>Rhetoric and Communication</td>
<td>MA, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Russian Studies</td>
<td>Certificate</td>
<td>UCIS</td>
</tr>
<tr>
<td>Security and Intelligence Studies</td>
<td>MIA</td>
<td>GSPIA</td>
</tr>
<tr>
<td>Slavic Languages &amp; Literatures</td>
<td>MA, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Social Work</td>
<td>MSW, PhD</td>
<td>Social Work</td>
</tr>
<tr>
<td>Sociology</td>
<td>MA, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Soviet Studies</td>
<td>Certificate</td>
<td>UCIS</td>
</tr>
<tr>
<td>Statistics</td>
<td>MA, MS, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Studies of Law</td>
<td>MSL</td>
<td>Law</td>
</tr>
<tr>
<td>Teaching English to Speakers of Other Languages</td>
<td>Certificate</td>
<td>FAS</td>
</tr>
<tr>
<td>Telecommunications</td>
<td>Certificate, MST</td>
<td>SIS</td>
</tr>
<tr>
<td>Theater Arts</td>
<td>MA, MFA, PhD</td>
<td>FAS</td>
</tr>
<tr>
<td>Urban and Regional Affairs</td>
<td>MPA</td>
<td>GSPIA</td>
</tr>
<tr>
<td>West European Studies</td>
<td>Certificate</td>
<td>UCIS</td>
</tr>
<tr>
<td>Women’s Studies</td>
<td>Certificate</td>
<td>FAS</td>
</tr>
</tbody>
</table>

¹ Acronyms for academic centers are as follows:
FAS = Faculty of Arts and Sciences
GSPH = Graduate School of Public Health
GSPIA = Graduate School of Public and International Affairs
SHRS = School of Health and Rehabilitation Sciences
SIS = School of Information Sciences
UCIS = University Center for International Studies
UNIVERSITY OF PITTSBURGH

GRADUATE PROGRAMS
The School of Information Sciences (SIS) is the largest school of its kind in North America and among the most diversified. The student body is a blending of students representing nearly 30 countries and a variety of academic disciplines. SIS offers programs of study at the undergraduate and graduate levels, including master’s and doctoral degrees, certificates of advanced study, and continuing education programs. Its graduates are prepared to accept a variety of positions in the library, archival, information, and telecommunications professions. The School of Information Sciences, an independent unit in the University, is composed of the Department of Information Science and Telecommunications (DIST) and the Department of Library and Information Science (DLIS). Programs offered by each department are detailed below under the individual department headings. SIS, with an international reputation for quality, is ranked consistently as a top school that prepares students for careers in the information, telecommunications, archival, and library professions. The SIS faculty, programs, and students have attained a strong record of excellence.

MISSION OF THE SCHOOL

The vision of the School of Information Sciences is to lead in integrating people, knowledge, and technology for problem solving, decision making, and learning. The SIS faculty, staff, students, and programs—uniquely interdisciplinary, multicultural, and international by design—are dedicated to the building of a global society and an informed citizenship based upon the foundation of knowledge made possible only through access to reliable and useful information.

SIS pursues excellence in teaching, research, and service to ensure that the information needs of society can be met because access to information enhances the quality of life for all people and organizations. SIS educates high quality information professionals and builds knowledge in the information professions. SIS develops resources and tools to create, organize, find, transmit, preserve, integrate, and use information.

GOALS OF THE SCHOOL

The goals of the School of Information Sciences are as follows:

- Promote excellence in professional education at the master’s level in the information sciences.
- Promote excellence as an internationally recognized center for high-quality, innovative, cutting edge research in the information sciences.
- Provide undergraduate education at a level commensurate with the school’s excellence in graduate and professional education.
- Promote strong professional, technical, and policy leadership by the SIS faculty at the local, state, regional, national, and international levels.

CONTACT INFORMATION

School of Information Sciences
135 North Bellefield Avenue
University of Pittsburgh
Pittsburgh, PA 15260
Phone: (412) 624-5230
Fax: (412) 624-5231
E-mail: inquiry@sis.pitt.edu
Web site: http://www.sis.pitt.edu/

ADMISSION

Admission to the graduate programs of the two departments of the School of Information Sciences is open to qualified graduates of accredited colleges and universities. Applicants for the degree programs are evaluated according to academic and personal qualifications. The basis of evaluation may include any or all of the following: previous scholastic record, scores achieved on the Graduate Record Exam, letters of recommendation, evidence of work/life experience, personal interviews, and statement of career goals. SIS seeks students with various interests and abilities who desire preparation for careers in the information professions. Scholastic achievement at the undergraduate level should have prepared the candidate to meet the rigorous demands of graduate study; this is not, however, the ultimate criterion. All means of evaluation will be considered in the final decision on admission, and when appropriate, provisional acceptance may be granted where deficiencies exist in a student’s background.

SIS admission policies support the University’s goal of affirmative action. This means more than the absence of discrimination. SIS actively encourages applications from men and women, racial and ethnic minorities, and students of other countries.

Students applying for admission to the graduate programs should:

1) Contact the following for application forms and descriptive material:

Admissions Coordinator
School of Information Sciences
University of Pittsburgh
Pittsburgh, PA 15260
Phone: (412) 624-5146
E-mail: nk@sis.pitt.edu
Web site: http://www.sis.pitt.edu/

2) Return the completed forms to the above address. Enclose a check or money order for $40 payable to the University of Pittsburgh. This nonrefundable application fee is required of all applicants.

3) Request that official transcripts from all undergraduate and graduate schools be sent directly to the above address, as well as letters of recommendation from persons capable of evaluating academic capabilities and achievements. (Two letters are required for the MSIS and MST programs; three letters are required for the PhD IS, MLIS, and PhD LIS programs.)
Early application is advised; applications received later than 30 days before the beginning of a term may not be processed in time for admission for that term. The Graduate Admissions Committee of each department will review the application for admission only after receiving the completed application form, the application fee, official transcripts, letters of recommendation, and test scores as required for specific programs. See the relevant department descriptions for information about more specific requirements.

A student may be admitted on provisional status pending completion of unmet entrance requirements. Registration is permitted only when admission has been granted.

The School of Information Sciences welcomes applications from international students. The following steps must be completed by international students in applying to graduate programs in the school:

1) Complete and submit the appropriate SIS application and the $40 application fee. The application must be completed in English. There are different applications for the departments of Library and Information Science and Information Science and Telecommunications.

2) Submit original or certified copies of original academic records. Academic records from institutions that do not routinely issue academic records in English must be accompanied by certified English translations. Translations made by applicants are not acceptable.

In cases where the original academic records do not state that a degree has been awarded, a certified copy of the original diploma or certificate awarding the degree must be submitted.

3) Submit letters of recommendation from people capable of evaluating the student's academic capabilities and achievements. (See step 3 above for the number of letters required by each program.)

4) Submit a Goals Statement.

5) Complete and submit the “Supplemental Application for International Graduate Students” and the “Education Summary Sheet” included in Information and Supplemental Application Materials for International Graduate Applicants.

6) Applicants whose native language is not English must have the results of the Test of English as a Foreign Language (TOEFL) sent directly to the University of Pittsburgh from the Educational Testing Service. Each program sets a minimum score for the TOEFL examination. The required score for the MLIS, MSIS, MST, and PhD IS programs is 550; the required score for the PhD LIS program is 575.

FINANCIAL ASSISTANCE

A limited number of graduate student assistantships and research assistantships are available. Some graduate student assistants support faculty members in the courses they teach and the research in which they are involved; others staff the SIS labs. Awards are made primarily on the basis of the applicant's academic background and ability to function in one or more of these assignments. The Financial Aid Policy Statement is available and distributed with applications for financial aid.

Financial aid is awarded each term. Decisions are contingent upon availability of funds and satisfactory academic performance and job performance during completed terms. Satisfactory academic and job performance is defined in the Financial Aid Policy Statement. Student assistantships are available only to full-time students. Full time is defined as a minimum of nine credits and a maximum of fifteen credits per term.

For more information on financial aid, see the section on Financial Aid beginning on page 7 of this bulletin.

ACADEMIC STANDARDS

The following section details school-specific academic rules and regulations. These are in addition to the University-wide rules detailed under General Academic Regulations, beginning on page 17 of this bulletin.

TRANSFER OF CREDITS

A maximum of six graduate credits earned with a grade of B or better may be transferred toward either the master's or PhD degree from institutions fully accredited for graduate study, provided that these credits have not been applied to any other degree or certificate, that they are applicable to the student's program of study, and that they are not older than the statute of limitations for the degree.

SATISFACTORY/AUDIT (S/N) GRADING SYSTEM

In addition to the standard University letter grade system, the Satisfactory/Audit (S/N) option is offered. This system encourages students to explore new and potentially difficult subjects without fear of failure. Under this option, a student who does satisfactory work receives the grade of S. If the student's work is unsatisfactory, an N is assigned. Courses for which an S is received are counted toward graduation but are not utilized in computing the QPA. A limit of six credits of Satisfactory (S) grades may be applied at the master's level. For further details on grades, see Grading and Records on page 19.

ADVISING AND PLACEMENT

Academic advising provides the foundation upon which students plan their studies. The policy of SIS requires each student to have an official advisor whose responsibilities include providing guidance in developing the student's career goals and academic programs, approving course selections, and advising as needed on issues affecting the student's academic and professional careers. The goal of academic advising is to develop a consistent academic program coordinated to meet general program requirements and specific needs of individual students. Ideally, the student and faculty advisor function as a team working toward the objective of career preparation by means of the strongest possible academic experiences for the student. Students are assigned an advisor upon admission; they may, however, change advisors at any time. Students meet each term with their advisors to register for classes.

Each department offers placement services for students and alumni. Students also use the University's Placement Service. See Placement Service on page 15 for more details.

MAJOR AND DEGREE OPTIONS

The School of Information Sciences offers the following graduate degrees:

- Master of Science in Information Science (MSIS)
- Master of Science in Telecommunications (MST)
- Master of Library and Information Science (MLIS)
- Doctor of Philosophy, with majors in:
  - Information Science
  - Library and Information Science
- Certificates of Advanced Study in Information Science, Library and Information Science, and Telecommunications

The Department of Information Science and Telecommunications (DIST) also has a joint agreement with the Graduate School of Public and International Affairs (GSPIA), allowing students to complete the MSIS degree and one of two degrees in GSPIA (the MPA or the MPIA) simultaneously. The course of study for the MSIS degree under the joint agreement consists of a minimum of 30 credits in DIST, plus an additional 30-39 credits at GSPIA depending on the selected area of study. To be admitted fully into the joint program, students must be accepted by both GSPIA and DIST.

SPECIAL ACADEMIC OPPORTUNITIES/PROGRAMS

In addition to the degree programs noted above, the School of Information Sciences offers a variety of other academic opportunities and programs for its students:

COLLOQUIA
Sponsored by funding from the Alumni Association and SIS, colloquia constitute a major enrichment of the educational programs. Almost each week throughout the Fall and Spring Terms, nationally and internationally known speakers from the information professions present research findings and give colloquia.

CONTINUING EDUCATION
The school offers an extensive continuing education program for alumni and other professionals. Special workshops and institutes are offered in various formats during the Summer Term and throughout the academic year. Professional development activities are often co-sponsored with other institutions and organizations.

STUDENT ORGANIZATIONS
There are six graduate social and professional organizations for students:

- Doctoral Guild, composed of students in the PhD programs of both SIS departments
- Infinity, a forum for students with an interest in preservation
- ISO (International Students Organization), composed of students from abroad in all SIS programs
- Minority Concerns Council, composed of students and faculty concerned for the well-being of SIS minority students
- Open Mind, a forum for making the school a welcoming environment for gay, lesbian, and bisexual persons
- SISGO (School of Information Sciences Graduate Organization), whose membership is comprised of all master’s-level students in both departments. A member of SISGO serves as the SIS representative to the University’s Graduate and Professional Student Association (GSPA).

SIS encourages students to become members of and to participate actively in the SIS student chapters of several professional associations of librarians and information specialists: Student Chapter of the American Library Association (SCALA), American Society for Information Science (ASIS), Special Libraries Association (SLA), and the Society of American Archivists (SAA). The school cooperates with local chapters and special divisions of these organizations and other professional associations, such as the Institute of Electrical and Electronics Engineers (IEEE), the Association for Computing Machinery (ACM), and the Data Processing Management Association (DPMA), in promoting meaningful programs of interaction with practicing professionals. Students are encouraged to become student members of professional associations.

ALUMNI ASSOCIATION
The alumni of SIS meet each year at the annual conferences of the American Library Association (ALA) and the American Society for Information Science (ASIS), as well as at various state and regional meetings.

BETA PHI MU
Graduates who achieve a grade point average of 3.75 on a 4.0 scale in their work for the MLIS, MSIS, MST, or PhD degree and are recommended by the SIS faculty are eligible for election to membership.

DEPARTMENT OF INFORMATION SCIENCE AND TELECOMMUNICATIONS

The Department of Information Science and Telecommunications (DIST) offers a Master of Science and a PhD in Information Science. In addition, DIST offers the Certificate of Advanced Study in Information Science to post-master’s-level students who wish to continue their education along the lines of their special interests. DIST also offers a Master of Science in Telecommunications through a program based in the Department of Information Science and Telecommunications and jointly sponsored with the Departments of Computer Science, Electrical Engineering, Communication, and with the Katz Graduate School of Business. A Certificate of Advanced Study in Telecommunications and a PhD in Information Science with a Telecommunications concentration are also offered.

RESEARCH FOCUS

All members of the faculty are active researchers with funding from governmental and/or private sources. Both master’s and doctoral students have an opportunity to work with faculty on research projects, and doctoral students conduct independent research for their dissertations. The major areas of research interest are systems analysis and design, telecommunications and networking, visualization, human-computer interaction, and cognitive science.

In the area of systems analysis and design, researchers develop system design methodologies, improved applications of information systems, including geographic information systems, development of rigorous systems specifications, and office automation systems that encourage the exchange of information.

Issues in telecommunications and networking research include wireless telecommunications, computer networking protocols, distributed databases and distributed processing, economic models for telecommunications, gigabit networking, network survivability, and photonic switching.
Researchers in the area of visualization study search and retrieval paradigms for databases, the replacement of mental inferences with visual inferences in problem solving, the extraction of intelligence from large scientific databases, the discovery and analysis of emergent relationships during learning and self-organization in neural networks, and have developed customized real-time displays for physicians.

Human-computer interaction research focuses on the importance of tailoring the interface to the specific user. Areas of interest include the generation and use of analogies, the design of interfaces that promote development of expertise, visual languages, electronic publishing, and hypermedia.

In the research area of cognitive science, basic research spans the diverse topics of artificial intelligence, neural networks, natural language processing, and human cognition. Specific areas of study include the development of a natural language parsing system, building models of semantic memory, spatial knowledge and processing, mathematical models of cognitive processes, and classification research.

**CONTACT INFORMATION**

Department of Information Science and Telecommunications
7th Floor IS Building
135 North Bellefield Avenue
University of Pittsburgh
Pittsburgh, PA 15260
Phone: (412) 624-9400
Fax: (412) 624-2788
E-mail: isadmit@pitt.edu
Web site: [http://www.sis.pitt.edu/~dist/](http://www.sis.pitt.edu/~dist/)

**ADMISSIONS**

To qualify for admission, an applicant must be a graduate of an accredited college or university, with a scholastic average of B, or a minimum quality point average of 3.00 (on a scale where A=4.00). Preference will be given to candidates with better than a B average. The scholastic average of the final 50 percent of a student’s undergraduate course work, as well as of graduate courses that may have been taken, shall be examined in determining achievement of this requirement.

All MSIS and MST applicants are required to submit a recent score (within three years of the date of application) on the Graduate Record Examination as part of their admission credentials. Scores on all three sections (verbal, quantitative, and analytical) of the General Section should be submitted.

Upon admission to DIST, students are classified as having full status or provisional status. Students are assigned full status when all matriculation requirements are fulfilled; students are assigned provisional status when certain matriculation requirements remain to be satisfied. Such conditions must be completed no later than the first two terms of graduate study in DIST. Time spent removing deficiencies after a provisional admission is included in the four-year statute of limitations. See detail on statute of limitations under the relevant program description below. Any coursework used to meet provisional requirements cannot be applied to the course requirements for the degree.

**REGISTRATION AND RESIDENCE REQUIREMENTS**

Full-time study on campus is considered most beneficial to the student, but DIST recognizes that many students hold jobs or have other off-campus responsibilities that make full-time study impossible. Degree requirements, therefore, can be met by full- or part-time study or a combination of both. While DIST endeavors to offer a wide variety of course times (day, Saturday, and evening), it cannot offer as full and rich a program of studies to those who are constrained by personal obligations.

To maintain active student status, students must register for at least three credits during one of the three terms of the calendar year. It is recommended, however, that part-time students register for at least six credits during two of the three terms of the academic year to maintain reasonable progress through the program.

With the possible exception of six credits of advanced standing, all course work must be completed in residence in DIST (i.e., registering with an INFSCI or TELCOM code). DIST may approve courses taken at other member institutions in the Pittsburgh Council on Higher Education (PCHE); students need approval of their advisors before cross registering. Courses taken at other schools or departments of the University or through PCHE cross registration are considered in residence provided the registration is with an INFSCI department code. See also Cross Registration, page 19, in the Registration section of this bulletin for further detail.

At most, six credits of upper-division undergraduate course work may be applied toward a graduate degree in Information Science. All other credits (including the practicum or thesis) must be at the graduate level (2000 or 3000 course numbers). No University of Pittsburgh courses numbered below 1000 or from 7000-7099 may be applied toward master's degree requirements. Specific courses for each student will be determined in consultation and with the approval of a faculty advisor. All students must, in consultation with their advisors, draw up and record a formal Plan of Studies.

Credit By Examination: No credit by examination will be granted toward the master’s degree, nor credit for work completed in extension courses or in off-campus centers of another institution unless those credits are approved for graduate degrees at that institution.

**MASTER OF SCIENCE IN INFORMATION SCIENCE (MSIS) PROGRAM**

The MSIS program is designed to prepare students to assume professional responsibilities as system analysts and designers, database developers and managers, software engineers, interactive systems designers, expert system designers, artificial intelligence specialists, information retrieval specialists, and other information-related specialists.

The Master of Science in Information Science requires a minimum of 36 credits. Thirty credits must be in regular course work; an additional six may be a thesis, practicum (a structured, supervised employment situation), or additional course work. A thesis is directed by a committee made up of a faculty advisor and two other faculty members. This option is recommended for students who wish to establish a research record or pursue a PhD degree. Students may choose among specialized track options. (See department Web site for a list of track options.) Because requirements in the tracks do vary, program planning must be done in consultation with a faculty advisor as soon as possible after admission.

A typical plan of study includes two courses in the theoretical and mathematical foundations of information science, two courses in cognitive science, and eight technically oriented courses chosen from...
a varied and extensive list (e.g., data structures, systems analysis and design, telecommunications and networks, operating systems, interactive graphics, database management, software engineering, and design of artificial languages).

**MSIS ADMISSION PREREQUISITES**

Prerequisites for admission to the MSIS program include one three-credit college course in each of the following:

- **Structured programming language**: a course on data structures and file processing using a modern structured language is optimal. C or C++ is strongly recommended.
- **Statistics**: a course covering data collection, descriptive and inferential statistics is optimal. It should cover measures of central tendency and variability, regression, correlation, non-parametric analysis, probability and sampling, Bayesian analysis, significance tests, and hypothesis testing.
- **Mathematics**: a college-level mathematics course, preferably in discrete mathematics or calculus, is required.

Any course work students are asked to meet as a condition of their admission must be completed with a grade of B or better.

**MSIS DEGREE REQUIREMENTS**

A minimum of 36 credits, as noted above, is required to complete the MSIS degree. Basic course requirements are as follows:

- Six credits of course work in the foundations area (INFSCI 2000 required unless exempted by advisor)
- 21 credits of course work in the systems and technology areas (either INFSCI 2610 or INFSCI 2630 required)
- Six credits of course work in the cognitive science area

To round out the required 36 credits, students may pursue a thesis, a practicum, or additional coursework as detailed above in the overview of the MSIS degree.

**MSIS STATUTE OF LIMITATIONS**

The MSIS degree program must be completed within four years of the first term in which courses were taken after admission. The normal full-time course load is nine to 12 credits per term; thus a full-time student will complete the program in three or four terms. The normal part-time course load is six credits per term, which permits part-time students to complete the program in six terms. The DIST faculty, via a student petition, must approve exceptions to the four-year limit due to extenuating circumstances.

**MASTER OF SCIENCE IN TELECOMMUNICATIONS (MST) PROGRAM**

The Master of Science in Telecommunications is a 36-credit program designed to prepare students as telecommunications network designers, analysts, managers, and data, voice, or image specialists with emphasis on the integrated voice, data, and image telecommunications network environments. The program responds to the need for telecommunications professionals who can analyze, plan, design, implement, evaluate, and manage integrated telecommunications networks, especially in an environment in which separate voice, data, video, and image networks are being merged. Doctoral study in telecommunications is available as a concentration in the Information Science PhD program. See Doctor of Philosophy in Information Science Program below.

The MST degree program is designed for both beginning and experienced professionals. Prerequisite and introductory courses provide students with the academic background necessary to pursue course work in areas such as network hardware and software, network design, telecommunications devices, protocols and interfaces, legal and regulatory issues, and project management and control. Laboratory sessions and practical projects supplement classroom work. Introductory courses in computer science, electrical engineering, business, and communication are available for those students without appropriate background in these areas. A series of advanced and specialized courses in the telecommunications field follow the introductory courses and complete the academic program. These advanced courses cover network concepts and systems, communication devices, transmission, switching, protocols, interfaces, project management and control, and legal and regulatory issues. A practicum project in a local organization or a thesis is encouraged as a culminating educational experience.

**MST ADMISSION PREREQUISITES**

Prerequisite to the MST program is a four-year undergraduate degree from a recognized college or university, including course work at the undergraduate level or higher with a C or better grade in one three-credit course in calculus and one three-credit course in probability or statistics. Applicants should also demonstrate skill in scientific programming acquired academically or professionally (C, Pascal, FORTRAN, etc.).

**MST REQUIREMENTS**

Completion of the Master of Science in Telecommunications degree requires a minimum of 36 credits. Three credits may be in practicum (a structured supervised employment situation) or a thesis. For research-oriented students, the faculty strongly recommends a three-credit thesis in lieu of course work.

The Master of Science in Telecommunications (MST) degree is conferred upon students who have:

- Acquired proficiency in a specialized area of telecommunications
- Obtained a firm understanding of the issues related to the design, implementation, and management of telecommunications systems
- Completed a minimum of 36 credits in approved course work.

The 36-credit minimum of course work should include the following:

- 12 credits of advanced required courses.
- Three credits selected from the management/policy group. (See the department Web site for a listing of these courses.)
- Three credits selected from the human communication group. (See the department Web site for a listing of these courses.)
- 18 credits of elective course work that may include a practicum of three credits or a thesis of three credits.

**MST STATUTE OF LIMITATIONS**

The MST degree program must be completed within five years of the first term in which courses were taken after admission.

**DOCTOR OF PHILOSOPHY IN INFORMATION SCIENCE (PHD - IS) PROGRAM**

The Doctor of Philosophy degree program in the Department of Information Science and Telecommunications (DIST) provides research-oriented graduate study and professional specialization in
the science of information. The candidate must give evidence of superior scholarship, mastery of a specialized field of knowledge, and demonstration of ability to do significant and relevant research. Students interested in telecommunications may pursue a concentration in Telecommunications as part of the PhD degree in Information Science. Students interested in the PhD degree should consult the document, *PhD Program in Information Science*, which is available from the department.

The candidate for the PhD/IS program should have a broad knowledge of information science as a profession as well as a specialization in the field of major interest. Every candidate should have, in addition, a strong background in the foundations of information science and in research methodologies.

The advisor and student should design a Plan of Studies as early as possible after admission.

**PhD - IS ADMISSION REQUIREMENTS**
In addition to the general requirements for admission to graduate study in DIST (or the Master of Science in Telecommunications program for students who plan to pursue the Telecommunications concentration), applicants for admission to the PhD program should have a quality point average (QPA) of 3.30 or better for any graduate studies they have pursued. They must also demonstrate mathematical literacy as follows:

- Satisfactory completion of college-level course work in any two of the following: differential calculus, integral calculus, linear algebra, modern algebra, matrix algebra, or mathematical logic; OR
- Successful completion of an examination arranged with the University of Pittsburgh’s Mathematics Department.

**PhD - IS DEGREE REQUIREMENTS**
Students pursuing the PhD degree are first admitted to graduate study in information science. A minimum of 60 credits beyond the master’s degree will normally be required for the PhD degree. Minimum credits are distributed as follows:

- 36 credits of course work of which 18 must be doctoral and research seminars and nine must be in statistics/research design
- Six credits outside of the department in a conceptual cluster
- 18 dissertation research credits.

Graduate degrees are conferred only on those students who have completed all courses required for the degree with at least a 3.30 QPA.

In the doctoral program, at least 18 credits must be 3000-level courses and seminars. The student will usually take at least nine credits at the 2000 level and must take INFSCTI 2000 (unless previously taken) as well as the PhD orientation session before taking the Preliminary Examination. During the first term of study, all students who have not taken INFSCTI 2000 should do so. Courses numbered below 2000 do not meet the minimum requirements for doctoral study; although they may be taken to supplement a doctoral program.

**RESIDENCE REQUIREMENT**
The PhD degree can be completed by a combination of full-time and part-time study. Three terms of full-time study are required, two of which must be consecutive, and must be taken after successful completion of the Preliminary Examination. All three terms must be completed before the Comprehensive Examination. All students, whether on campus or away, must maintain active status by registering according to the registration requirements stated below.

**REGISTRATION REQUIREMENT**
All graduate students not admitted to candidacy, whether or not they are using University facilities or faculty time, must be registered for a minimum of three credits in one of three consecutive terms to continue as active students. Doctoral candidates in residence are required to register for at least three credits per term or such greater amount as the department deems appropriate. Doctoral candidates not in residence must be registered for at least one credit per three terms. Students must be registered in the term in which the Preliminary and Comprehensive Examinations are taken and in which dissertation defense and graduation take place.

**PRELIMINARY EXAMINATION REQUIREMENT**
The department follows the University policy on preliminary examinations, according to *Regulations Governing Graduate Study at the University of Pittsburgh*. For more on the University regulations, see [http://www.pitt.edu/~graduate/rgtoc.html](http://www.pitt.edu/~graduate/rgtoc.html) and refer in this bulletin to *Regulations Pertaining to Doctoral Degrees*, beginning on page 23.

**COMPREHENSIVE EXAMINATION REQUIREMENT**
The Comprehensive Examination has both a written and an oral component. For the written component the student must prepare a written state-of-the-art paper and a written research plan (usually an experimental design) for a problem related to that state-of-the-art paper. The two-hour oral examination is directed at the state-of-the-art paper, the research plan, and the various relationships among the components of information science.

**CANDIDACY AND DISSERTATION REQUIREMENTS**
After the successful completion of the Comprehensive Examination, the student shall select a dissertation advisor who may or may not be the student’s current academic advisor. The student in consultation with the dissertation advisor selects a dissertation committee of at least five people. A majority of the committee must be members of the DIST Graduate Faculty, and one of the members must hold a primary faculty appointment outside the department. Upon successful completion of the Comprehensive Examination and approval of the dissertation proposal, the student is admitted to doctoral candidacy. The doctoral committee must unanimously approve the dissertation topic and research plan before the student may be admitted to candidacy for the doctoral degree. Approval of the proposal does not imply either the acceptance of a dissertation prepared in accord with the proposal or the restriction of the dissertation to this original proposal.

**PhD STATUTE OF LIMITATIONS**
All requirements for the PhD degree program in IS must be completed in not more than six calendar years from the time of first registration. Students may in extenuating circumstances submit a formal request for extension of their statute of limitation or for a leave of absence from the program. The request must be submitted to the advisor and then presented to the DIST Committee on Doctoral Studies for a decision.

**TELECOMMUNICATIONS CONCENTRATION**
Requirements for the PhD with a concentration in Telecommunications differ from the requirements stated in the preceding section in the following areas:

1. The degree requires a minimum of 84 graduate course and seminar credits beyond the bachelor’s degree and at least 18 dissertation credits. These credits include:
   - The required courses (or their equivalents) for the MST degree at the University of Pittsburgh
- Six credits in graduate-level statistics or probability
- Three credits in graduate-level research design
- Nine credits in graduate-level information science courses excluding those courses normally taken for the MST degree
- Nine credits in doctoral-level seminars in information science or telecommunications

(2) During the first or second term of study and in preparation for the Preliminary Examination, students must take and pass with a grade of B or better the Telecommunications Research Project course unless they submit an acceptable master's thesis.

(3) For the written component of the Preliminary Examination, the student selects three of the following four areas for a total of three three-hour exams: systems, foundations of transmission, performance analysis, and management policy.

(4) To be admitted to the Comprehensive Examination, a student must have completed the minimum of 84 credits of graduate course and seminar work beyond the undergraduate degree.

CERTIFICATES – INFORMATION SCIENCE AND TELECOMMUNICATIONS

Students in the Department of Information Science and Telecommunications may pursue certificates of advanced study. DIST offers two such certificates: one in Information Science (IS) and another in Telecommunications (TELCOM).

In consultation with an advisor, students project a Plan of Studies to meet their specific interests or needs, and these plans may change as the program proceeds. Students may select graduate-level courses in other departments within the University as well as at Pittsburgh Council on Higher Education-cooperating institutions. Admission to all courses is contingent upon meeting course prerequisites and is subject to the advisor's approval.

Candidates for the IS and TELCOM certificates must complete the following requirements:

- A total of 24 credits in graduate-level courses acceptable to the advisor and passed with a quality point average of at least B (3.00 on a 4.00 scale)

- 15 of the 24 credits must be taken within DIST from among the approved courses for the MSIS degree program (for students pursuing the IS certificate of advanced study) or the MST degree program (for students pursuing the TELCOM certificate).

Course work must be completed within a period of four calendar years from the student's initial registration in the certificate program.

DIST COURSE LISTINGS

| INFSCI  | 2000 | Introduction to Information Science |
| INFSCI  | 2020 | Mathematical Foundations for Information Science |
| INFSCI  | 2060 | Statistics in Information Science |
| INFSCI  | 2065 | Scaling Theory |
| INFSCI  | 2100 | Research Design |
| INFSCI  | 2120 | Information and Coding Theory |
| INFSCI  | 2130 | Decision Analysis and Decision Support Systems |
| INFSCI  | 2140 | Information Storage and Retrieval |
| INFSCI  | 2300 | Human Information Processing |
| INFSCI  | 2330 | Foundations of Cognitive Science |
| INFSCI  | 2350 | Human Factors in Systems |
| INFSCI  | 2410 | Introduction to Parallel Distributed Processing |
| INFSCI  | 2420 | Natural Language Processing |
| INFSCI  | 2440 | Artificial Intelligence |
| INFSCI  | 2450 | Artificial Intelligence Programming Tools |
| INFSCI  | 2470 | Interactive System Design |
| INFSCI  | 2510 | Information Systems |
| INFSCI  | 2511 | Information Systems Analysis, Design, and Evaluation |
| INFSCI  | 2530 | Modeling of Information Systems and Processes |
| INFSCI  | 2540 | Software Engineering and Software Tools |
| INFSCI  | 2550 | Client-Server and Workstation Systems |
| INFSCI  | 2610 | Data Structures |
| INFSCI  | 2611 | Algorithm Design |
| INFSCI  | 2630 | Architecture and Assembler Language |
| INFSCI  | 2640 | Programming Languages and Environments |
| INFSCI  | 2650 | Visual Languages |
| INFSCI  | 2670 | Operating Systems |
| INFSCI  | 2680 | Compiler Design |
| INFSCI  | 2710 | Database Management |
| INFSCI  | 2711 | Database Analysis and Design |
| INFSCI  | 2720 | Geographic Information Systems |
| INFSCI  | 2770 | Document Processing |
| INFSCI  | 2780 | Interactive Graphics |
| INFSCI  | 2781 | Advanced Interactive Graphics |
| INFSCI  | 2810 | Management Information Systems |
| INFSCI  | 2870 | Information Processing Standards |
| INFSCI  | 2901 | Introduction to Medical Informatics |
| INFSCI  | 2902 | Introduction to Clinical Medical Multimedia & The Internet |
| INFSCI  | 2904 | Evaluation Methods in Medical Informatics |
| INFSCI  | 2905 | Probabilistic Methods for Computer-Based Decision Support |
| INFSCI  | 2906 | Knowledge Representation and Clinical Decision Support |
| INFSCI  | 2921/3921 | Independent Study: Mathematical and Formal Foundations |
| INFSCI  | 2923/3923 | Independent Study: Cognitive Science |
| INFSCI  | 2924/3924 | Independent Study: Cognitive Systems |
| INFSCI  | 2925/3925 | Independent Study: Systems & Technology—Systems Design, Development, and Implementation |
| INFSCI  | 2927/3927 | Independent Study: Systems & Technology—Applications of Information Technology |
| INFSCI 2928 | Independent Study: Systems & Technology—Management and Policy |
| INFSCI 2931 | Special Topics: Mathematical and Formal Foundations |
| INFSCI 2933 | Special Topics: Cognitive Science |
| INFSCI 2934 | Special Topics: Cognitive Systems |
| INFSCI 2935 | Special Topics: Systems and Technology—Systems Design, Development, and Implementation |
| INFSCI 2936 | Special Topics: Systems & Technology—Computing Systems Concepts |
| INFSCI 2937 | Special Topics: Systems & Technology—Applications of Information Technology |
| INFSCI 2938 | Special Topics: Systems & Technology—Management and Policy |
| INFSCI 2940 | Practicum |
| INFSCI 2950 | Thesis |
| INFSCI 3140 | Advanced Information Retrieval |
| INFSCI 3710 | Data Compression |
| INFSCI 3931 | Advanced Topics: Mathematical and Formal Foundations |
| INFSCI 3933 | Advanced Topics: Cognitive Science |
| INFSCI 3934 | Advanced Topics: Cognitive Systems |
| INFSCI 3935 | Advanced Topics: Systems and Technology—Systems Design, Development, and Implementation |
| INFSCI 3936 | Advanced Topics: Systems & Technology—Computing Systems Concepts |
| INFSCI 3937 | Advanced Topics: Systems & Technology—Applications of Information Technology |
| INFSCI 3938 | Advanced Topics: Systems & Technology—Management and Policy |
| INFSCI 3951 | Doctoral Seminar |
| INFSCI 3978 | Doctoral Seminar |
| INFSCI 3981 | Research Seminar: Mathematical and Formal Foundations |
| INFSCI 3983 | Research Seminar: Cognitive Science |
| INFSCI 3984 | Research Seminar: Cognitive Systems |
| INFSCI 3985 | Research Seminar: Systems & Technology—Systems Design, Development, and Implementation |
| INFSCI 3987 | Research Seminar: Systems & Technology—Applications of Information Technology |
| INFSCI 3988 | Research Seminar: Systems & Technology—Management and Policy |
| INFSCI 3999 | Dissertation |

**FTDM** 3999: Full-time Dissertation Study

### Graduate Courses in Telecommunications

| TELCOM 2000 | Introduction to Telecommunications |
| TELCOM 2100 | Fundamentals of Telecommunications |
| TELCOM 2110 | Network Design |
| TELCOM 2120 | Network Performance |
| TELCOM 2121 | Network Management |
| TELCOM 2122 | Telephone System Management |
| TELCOM 2123 | Network Security |
| TELCOM 2130 | Queuing Theory |
| TELCOM 2200 | Electronic Communications 1 |
| TELCOM 2210 | Electronic Communications 2 |
| TELCOM 2220 | Digital Transmission |
| TELCOM 2222 | Photonic Communications |
| TELCOM 2225 | Switching Systems |
| TELCOM 2226 | Intelligent Networks |
| TELCOM 2228 | Video Applications |
| TELCOM 2230 | Random Signals and Noise |
| TELCOM 2300 | Software Tools and Techniques |
| TELCOM 2310 | Computer Networks |
| TELCOM 2320 | Local Area Networks |
| TELCOM 2321 | Wide Area Networks |
| TELCOM 2325 | Distributed Systems |
| TELCOM 2326 | Distributed Databases |
| TELCOM 2400 | Accounting and Finance for Telecommunications |
| TELCOM 2411 | Information Technology in Organizations |
| TELCOM 2412 | Telecommunications Marketing |
| TELCOM 2420 | Project Management |
| TELCOM 2430 | Case Studies in Telecommunications |
| TELCOM 2510 | U.S. Telecommunications Policy |
| TELCOM 2511 | International Telecommunications Policy |
| TELCOM 2512 | Information Policy |
| TELCOM 2530 | Economics of Networks |
| TELCOM 2600 | Human Communication |
| TELCOM 2610 | Designing Computer and Network Services |
| TELCOM 2611 | Organizational Behavior |
| TELCOM 2700 | Introduction to Wireless Communications |
| TELCOM 2710 | Foundations of Wireless Communications |
| TELCOM 2720 | Cellular Radio and Personal Communications |
| TELCOM 2721 | Mobile Data Networks |
| TELCOM 2725 | Code Division Multiple Access |
| TELCOM 2229 | Digital Wireless Communications: Modulation and Coding |
| TELCOM 2726 | Radio Propagation and Antennas |
| TELCOM 2730 | Capstone — Mobile Applications |
| TELCOM 2921 | Independent Study in Networking |
| TELCOM 2922 | Independent Study in Communications |
| TELCOM 2923 | Independent Study in Computer Communications |
| TELCOM 2924 | Independent Study in Telecommunications Administration |
| TELCOM 2925 | Independent Study in Economics and Policy |
| TELCOM 2931 | Special Topics in Networking |
| TELCOM 2932 | Special Topics in Communications |
| TELCOM 2933 | Special Topics in Computer Communications |
| TELCOM 2934 | Special Topics in Telecommunications Administration |
DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

The Department of Library and Information Science (DLIS) offers programs of graduate study leading to the Master of Library and Information Science degree (MLIS), the Certificate of Advanced Study, and the Doctor of Philosophy degree, as well as two certification programs for school library media specialists. Students enrolled in DLIS programs, under the mentorship of the program faculty, prepare for careers in the information professions as librarians, as archivists and records managers, as college and university faculty members, as supervisors in diverse information centers, and as information specialists. The basic professional program leads to the MLIS degree, which requires completion of 36 credits of course work. The core curriculum (12 credits) is enriched by advanced courses in management, technology, resources, organization of knowledge, and the behavioral aspects of information transfer. Upon award of the MLIS degree, graduates are prepared to make contributions to the profession at the local, national, and international levels.

Beyond curricular offerings, educational experiences available to students in the program include colloquia, workshops, participation in local conferences, and attendance at professional association meetings. DLIS sponsors the “Summer Institutes for Librarians and Teachers Who Serve Youth,” and “Professional Development Opportunities,” a series of professional development workshops offered each summer for school library media specialists and public librarians who serve young people.

RESEARCH FOCUS

All members of the DLIS faculty are active researchers, with records of funding from governmental agencies and private sources. While both master’s and doctoral students have opportunities to work with faculty on research projects, doctoral students are most involved in the research process.

The major areas of research interest include archives and records management (including electronic record keeping); children’s literature; continuing education; digital libraries; ethics; history of books, printing, and publishing; information policy; information retrieval; library automation; library management; organization of information; preservation of library materials; and school library media center management.

CONTACT INFORMATION

Department of Library and Information Science
6th Floor IS Building
135 North Bellefield Avenue
University of Pittsburgh
Pittsburgh, PA 15260
Phone: (412) 624-9435
Fax: (412) 628-7001
E-mail: callison@mail.sis.pitt.edu
Web site: http://www.sis.pitt.edu/~dlis

ADMISSIONS

An applicant must be a graduate of an accredited college or university with a scholastic average of B or a minimum quality point average of 3.00 (on a scale where A=4.00). The final 50 percent of a student’s undergraduate work, as well as any graduate courses taken, will be given more weight in determining achievement of this requirement.

MASTER OF LIBRARY AND INFORMATION SCIENCE (MLIS) PROGRAM

The MLIS Program is responsive to the information marketplace and encourages the development of creativity, professionalism, and a proactive attitude to the needs of various clienteles in library and information service environments.

Upon completion of the MLIS degree, graduates will be able to:

• Draw upon a common body of professional knowledge that reflects the principles and procedures relevant to all types of libraries, archives, and information centers and their various clienteles
• Define the scope of the information professions, emphasizing its interdisciplinary aspects and the global information environment
• Communicate effectively in written, oral, and electronic formats, whether working independently or as members of a group or team
• Articulate current professional issues and affirm a commitment to continuing professional development
• Integrate theory and research findings with application and practice
• Demonstrate professional attitudes and a philosophy of service that incorporate the ethical foundations of the information professions into professional practice and have an understanding of the social responsibilities of those professions
• Apply basic principles of selection, acquisition, organization, retrieval, preservation, management, and use to all types and formats of information resources
• Serve as intermediaries in the information-seeking process through their understanding of client needs and knowledge of a multiplicity of resources
• Apply information technologies to various functions in library and information environments
• Plan and evaluate information service in both traditional and innovative settings to meet current needs and future directions
• Be able to serve as educators in the information-seeking process through user instruction on information literacy competency.

The MLIS degree program is accredited by the Committee on Accreditation of the American Library Association.

MLIS DEGREE REQUIREMENTS

Students seeking the MLIS must complete the following requirements:

• Complete a minimum of 36 credits of graduate-level course work, of which at least 30 credits must be selected from courses offered at the 2000 level or above in SIS.
• Maintain a B (3.00) average for the required 36 credits of graduate-level course work.

Requirements for the MLIS degree must be completed within a period of four calendar years from the student’s initial registration.

**DOCTOR OF PHILOSOPHY IN LIBRARY AND INFORMATION SCIENCE (PhD - LIS) PROGRAM**

The Doctor of Philosophy in the Library and Information Science Program prepares students for advanced work in research, teaching, and administration. The primary purpose of the PhD Program is to develop an understanding of library and information science beyond the master’s degree, with particular emphasis on the conduct of original research, the production of significant and generalizable research findings, and the contribution of such findings to public knowledge.

The advisor selected by the student for the period prior to the dissertation stage of the program is the Program Advisor; before the dissertation proposal is prepared, the student should select a Dissertation Advisor. The Program Advisor and the Dissertation Advisor may be the same person, but the student has the option to select a different advisor for the dissertation. The advisor must be a member of the graduate faculty in the Department of Library and Information Science who is able to spend the time and effort necessary for the advising role, be available for examinations, and with whom a productive and comfortable working relationship can be established.

For complete information on the PhD-LIS Program, consult Statement of Requirements for the Degree of Doctor of Philosophy.

**PhD - LIS ADMISSION REQUIREMENTS**

In addition to those school-wide requirements for admission detailed at the start of SIS’s section of this bulletin, the following are requirements for admission to the PhD - LIS Program:

- A master’s degree from a program accredited by the American Library Association, a recognized international program, or the equivalent in a closely related field of study.
- Attainment in graduate work of a minimum quality point average of 3.50 (on a scale where A=4.00). An international student’s quality point average will be calculated on the basis of equivalency from universities that use a different scale.
- Submission of scores from a predictor test, such as the Graduate Record Examination or the Miller Analogy Test, taken within the last five years.
- At least three references from persons in the professional and academic communities.

As evidence of the ability to undertake doctoral work, the student’s application must be accompanied by:

- An essay (not exceeding 1,000 words) indicating, as specifically as possible, the student’s academic and professional goals in relation to the Department of Library and Information Science doctoral program and identifying potential areas and/or topics in which the student expects to pursue dissertation research.
- A complete curriculum vitae that provides an overview of education, work, publication, and other professional activities.
- At least one example of scholarly research or professional writing in any format (print or electronic). The student should describe fully any published or unpublished research, thesis, contributions to the professional or scholarly literature, and other professional or academic experience relevant to an assessment of capacity to pursue doctoral study successfully.
- A brief description, if appropriate, of professional work experience in libraries, archives, information centers, publishing, the information industry, education, or similarly related areas of professional activity.

Applications from all individuals, regardless of citizenship, who have a degree from a non-U.S. institution, must be reviewed by the University Office of International Services (OIS). International students must submit evidence of competence in the English language. The status of English in the country of origin may constitute such evidence. A minimum score of 575 on the paper-based TOEFL (or equivalent score of 231 on the computer-based TOEFL) is required for international students.

Credentials of prospective students are reviewed by the Admissions Review Committee and voted upon by the DLIS Committee on Doctoral Studies throughout the year. However, students who are applying for financial aid should be aware that they must be admitted and meet financial aid deadlines to ensure consideration for funding. See Financial Assistance on page 7 for more detail. PhD students may begin their studies only in the Fall Term in order to ensure a coherent program of study.

**PhD - LIS DEGREE REQUIREMENTS**

This PhD program requires a minimum of 54 credits beyond the master’s degree. A minimum of 36 credits must be taken in advanced course work. The student must receive a letter grade in each course taken in this 36-credit requirement. An additional 18 credits are required, which must be applied to dissertation research and writing. However, regardless of the number of credits taken, no more than 18 credits for dissertation research and writing may be applied toward graduation.

The minimum of 36 credits of course work, all of which must be on the graduate level, must be distributed as follows:

- 3 credits: LIS 3000: Introduction to Doctoral Studies
- 9 credits: 3000 level doctoral seminars in SIS
- 6 credits: Courses in research methodology and statistics
- 6 credits: Courses in cognate field
- 9 credits: Which may be
  1) 2000 level courses in SIS (with the expectation that doctoral level work will be conducted)
  2) 3000 level independent studies or doctoral seminars in SIS
  3) Additional cognate courses
  4) Additional research methodology courses

Graduate degrees are conferred only on those students who have completed all courses required for the degree with at least a 3.50 QPA.

Doctoral students are required to devote some portion of their studies to work on other disciplines in order to broaden their perspectives and deepen their understanding of library and information science. To fulfill the cognate requirement, students are required to take a minimum of six credits and a maximum of 12 credits in some area of graduate study outside the field of library and information science. These credits may be from more than one department or school or from another institution.

The research methodology course requirement must be fulfilled prior to taking the Preliminary Examination. Research methodology courses...
may include courses in statistical analysis, general research methodology, and specific research methods or research methods used in specific fields of study such as historiography, ethnography, or case field study.

RESIDENCE AND REGISTRATION REQUIREMENTS
Doctoral students must register for at least three credits in each term until they have achieved candidacy. To maintain active status, all doctoral candidates must be registered for a minimum of three credits in each 12-month period (three credits in one term or one credit in each of three terms) from the time of admission to candidacy until receipt of degree.

LANGUAGE REQUIREMENT
Any language requirement relates to the student’s need for proficiencies necessary for successful completion of doctoral research. Depending upon the student’s program, proficiencies in modern languages, linguistics, and/or computer languages may be specified.

COLLOQUIUM REQUIREMENT
During the course of the PhD program, each student is required to present a colloquium to faculty and students in the school. This colloquium may be on a research project the student is engaged in, or on preliminary results of the dissertation project.

PRELIMINARY EXAMINATION
Upon completion of 24 hours of course work each student submits for review a portfolio comprising the best representation of work completed thus far. The student presents this portfolio to the Doctoral Studies Committee as a whole, which votes on its acceptability. The preliminary evaluation is based on the breadth and depth of knowledge as addressed through course work, as well as whether the course work taken will support the research plan of the student.

COMPREHENSIVE EXAMINATION
The Comprehensive Examination is conducted by the student’s advisor, one faculty member chosen by the student with agreement of the faculty member, and one faculty member chosen by the Chair of Doctoral Studies Committee. The examination consists of a written take-home exam over two weeks and an oral examination conducted by the student’s committee. The take-home exam has two parts: a broad perspective on current issues in the field of library science, information science, or archives, depending on the student’s general area; and the area of the student’s research specialization.

CANDIDACY AND DISSERTATION
For admission to formal candidacy for the PhD degree, a student must have:

1. Passed the preliminary examination
2. Completed a minimum of 36 credits beyond the master’s degree with a QPA of 3.50 or higher
3. Passed the comprehensive examination
4. Successfully defended the dissertation proposal and received permission from the Dissertation Committee to begin research.

Students demonstrate their ability to complete a sound project of original research by presenting and defending the dissertation proposal to their Dissertation Committee. The Dissertation Committee must unanimously approve the dissertation topic and research plan before the student may be admitted to candidacy for the doctoral degree.

STATUTE OF LIMITATIONS
All requirements for the PhD degree must be completed in not more than six calendar years from the time of first registration. Students may, in extenuating circumstances, submit a formal request for extension of their statute of limitations or for a leave of absence from the program.

SCHOOL LIBRARY CERTIFICATION PROGRAM (SLCP)
The School Library Certification Program fulfills requirements for certification established by the Commonwealth of Pennsylvania through the following options:

Endorsement Option—Fulfills the requirements for the MLIS degree as well as for Commonwealth of Pennsylvania certification in Library Science, K-12. Students who enter this program already possess a teaching certificate from the Commonwealth of Pennsylvania and receive an endorsement of their Instructional I or Instructional II certificates upon completion of the program.

Intern Option—Designed for students who have not fulfilled the requirements for an Instructional I teaching certificate established by the Commonwealth of Pennsylvania. Students completing this program receive an Instructional I teaching certificate in Library Science, K-12, from the Commonwealth of Pennsylvania as well as their MLIS degree.

SLCP ADMISSION REQUIREMENTS
For both options of the School Library Certification Program (SLCP), admission requirements are the same as those for admission to the MLIS program. Applicants who do not hold a valid teaching certificate must apply for the Intern Option.

SLCP CERTIFICATION REQUIREMENTS
Certification requirements for the School Library Certification Program, with the MLIS degree, are completion of 36 credits (Endorsement Option) or 57 credits (Intern Option) in required courses in a competency-based course of study leading to the MLIS degree and School Library Certification concurrently. Students who have demonstrated competency in areas covered by specific courses may have those courses waived as requirements but must complete the number of credits required for the degree and for certification.

SUPERVISOR OF LIBRARY SCIENCE CERTIFICATION (SLSC) PROGRAM

Candidates for the Supervisor of Library Science Certification (SLSC) Program have demonstrated leadership in school librarianship and enters the program to update and upgrade their skills in preparation for a position of additional responsibility in district-level school library media management and/or curriculum development. The SLSC program may be used as the course work required for the Certificate of Advanced Study (see details on certificate below) or as part of the 36 credits of course work required for the PhD degree. Students who have demonstrated their competency in the areas identified will receive their supervisor’s certificate from the Commonwealth of Pennsylvania.

SLSC PROGRAM ADMISSION REQUIREMENTS
Requirements for admission to the Supervisor of Library Science Certification (SLSC) program are the same as those for the Certificate of Advanced Study, with the following additions:

- Applicants must hold a valid school library teaching certificate issued by the Commonwealth of Pennsylvania, a copy of which must be submitted with the application for admission.
• Applicants must have five years of school library teaching experience.

SLSC PROGRAM REQUIREMENTS
Candidates complete 24 credits selected from a competency-based course of study leading to the Certificate of Advanced Study and Supervisor of Library Science Certification concurrently.

CERTIFICATE OF ADVANCED STUDY IN LIBRARY AND INFORMATION SCIENCE (CAS/LIS) PROGRAM

Students enrolled in the Certificate of Advanced Study in Library and Information Science (CAS/LIS) program are, in most cases, experienced professionals who have advanced in their careers in librarianship and information management and wish to update their skills and knowledge and enhance their professional development through a planned program of individualized study beyond the MLIS degree. The CAS/LIS program leads to a certificate rather than a degree and is designed specifically for those who do not wish to pursue the PhD degree but who wish to continue their education in an area of special interest.

For admission to the Certificate of Advanced Study in Library and Information Science (CAS/LIS) program, applicants must:

• Possess a master’s degree from a program accredited by the American Library Association or a master’s degree in information science, with a quality point average of 3.00 (on a scale where A=4.00), or equivalent qualification.

• Submit three letters of recommendation that attest to the applicant’s aptitude and motivation to pursue professional studies at a level beyond the master’s degree.

• Choose a DLIS advisor who agrees to direct the student’s work in the CAS/LIS program.

To receive the CAS/LIS, the student must complete a total of 24 credits of course work acceptable to the advisor with a grade of B or better. Requirements for the CAS/LIS must be completed within a period of four calendar years from the student’s initial registration in the program.

DLIS COURSE LISTINGS

Note: All courses are 3 credits unless otherwise specified. When * appears, course may be taken concurrently with prerequisite.

2000 - 2099 CORE
LIS 2000 Understanding Information
(Required Course for MLIS Degree)
LIS 2001 Organizing Information
(Required Course for MLIS Degree)
LIS 2002 Retrieving Information
(Required Course for MLIS Degree)

Core Requirement in Management—Select one of following (nine) management courses: LIS 2700, 2771, 2772, 2773, 2774 - (Management Course List Series), LIS 2810, LIS 2215, LIS 2220, or LIS 2221. These courses are marked with a “#”.

2100 - 2199 GENERAL
LIS 2110 Action Research: Methods and Applications
LIS 2184 Legal Issues in Information Handling
LIS 2194 Information Ethics

2200 - 2299 BOOK ARTS, PRESERVATION, ARCHIVES
LIS 2214 Library and Archival Preservation
#LIS 2215 Preservation Management
LIS 2218 Oral History/Oral Tradition
#LIS 2220 Records and Information Resources Management
#LIS 2221 Archives and Manuscripts Management
LIS 2222 Archival Appraisal
LIS 2223 Archival Access and Advocacy
LIS 2224 Archival Representation
LIS 2280 History of Books, Printing, and Publishing
LIS 2281 Introduction to Bibliography

2300 - 2399 RESOURCES AND SERVICES FOR SPECIFIC PATRON GROUPS
LIS 2322 Resources for Children
LIS 2323 Resources for Young Adults
LIS 2324 History of Children’s Literature
LIS 2325 Curriculum Resources and Services in the School Library Media Center
LIS 2326 Storytelling
LIS 2327 Library Services for Children and Young Adults
LIS 2332 Resources and Services for Adults
LIS 2333 Resources and Services for Special Populations

2400 - 2499 ORGANIZATION OF INFORMATION
LIS 2405 Descriptive Cataloging
LIS 2406 Subject Analysis
LIS 2452 Indexing and Abstracting

2500 - 2599 SUBJECT AREA RESOURCES AND SERVICES
LIS 2500 Reference Sources and Services
LIS 2537 Government Information Resources and Services
LIS 2543 Humanities Resources and Services
LIS 2544 Social Sciences Resources and Services
LIS 2545 Science and Technology Resources and Services
LIS 2546 Business and Economics Resources and Services
LIS 2555 Law Resources and Services
LIS 2568 Multicultural Resources and Services
LIS 2586 Health Sciences Resources and Services
LIS 2588 Introduction to Medical Informatics

2600 - 2699 INFORMATION TECHNOLOGY
LIS 2600 Applications of Microcomputer Software
LIS 2653 Computer Based Management of Image Collections
LIS 2657 Automation of Library Systems and Services
LIS 2658 Advanced Topics in Information Storage and Retrieval
LIS 2663 Technologies for Information Management
LIS 2664 Library Cooperation and Networking
LIS 2670 Digital Libraries

2700 - 2799 MANAGEMENT
(NOTE: All of the following courses marked with “#” will fulfill the Core requirement in Management)

#LIS 2700 Management of Libraries and Information Systems and Services
LIS 2727 Personnel Issues in Library and Information Centers
#LIS 2771 Academic Library Management
#LIS 2772 Public Library Management
#LIS 2773 Special Library and Information Center Management
#LIS 2774 School Library Media Center Management
LIS 2775 School District Library Media Center Management

2800 - 2899 ORGANIZATIONAL BEHAVIOR
LIS 2800 Behavioral Perspectives
#LIS 2810 Managing Change in Information Environments
LIS 2830 Marketing and Public Relations for Libraries
LIS 2840 Outreach and Community Programs
LIS 2842 Organizational Behavior and Change

2900 - 2999 INDIVIDUAL OPTIONS
LIS 2901 Individual Research 1 (1-3 credits)
LIS 2902 Individual Research 2 (1-3 credits)
LIS 2921 Field Experience
LIS 2922 Practicum in School Library Media Programs
LIS 2923 Practicum in School District Library Media Center Programs
LIS 2960 Continuing Education
LIS 2963 Update for School Library Media Specialists
LIS 2965 Update in Health and Biomedical Information
LIS 2970 Special Topics
LIS 2990 Colloquium (no credit)

SCHOOL OF INFORMATION SCIENCES FACULTY

DEPARTMENT OF INFORMATION SCIENCE AND TELECOMMUNICATIONS

SUJATA BANERJEE, Associate Professor, PhD, University of Southern California

STEFAN BRASS, Assistant Professor, PhD, University of Hannover (Germany)

ANTHONY DEBONS, Professor Emeritus

TONI CARBO, Dean and Professor, PhD, Drexel University

MAREK DRUZDZEL, Associate Professor, PhD, Carnegie Mellon University

ROGER R. FLYNN, Associate Professor, PhD, University of Pittsburgh

STEPHEN C. HIRLITE, Professor, PhD, University of Michigan

HAZAL KARIMI, Assistant Professor, PhD, University of Calgary

PRASANANT KRISHNAMURTHY, Assistant Professor, PhD, Worcester Polytechnic Institute

MICHAEL C. LEWIS, Associate Professor, PhD, Georgia Institute of Technology

DOUGLAS P. METZLER, Associate Professor, PhD, University of California, Davis

PAUL W. MUNRO, Associate Professor, PhD, Brown University

KENNETH M. SOCHATS, Assistant Professor, MBA and MS, University of Pittsburgh

MICHAEL B. SPRING, Associate Professor, PhD, University of Pittsburgh

RICHARD A. THOMPSON, Professor, PhD, University of Connecticut

DAVID TIPPER, Associate Professor, PhD, University of Arizona

MARTIN B.H. WEISS, Associate Professor, PhD, Carnegie Mellon University

JAMES G. WILLIAMS, Professor, PhD, University of Pittsburgh

TAIEB ZNATI, Associate Professor, PhD, Michigan State University

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

STEPHENV R. ALMAGNO, Professor, MLS, University of Pittsburgh

MARY KAY BIAGINI, Associate Dean and Associate Professor, PhD, University of Pittsburgh

TONI CARBO, Dean and Professor, PhD, Drexel University

RICHARD COX, Associate Professor, PhD, University of Pittsburgh

ELLEN GAY DETLEFSEN, Associate Professor, DLS, Columbia University

SARA FINE, Professor Emerita

E.J. JOSEY, Professor Emerita

MARGARET MARY KIMMEL, Professor, PhD, University of Pittsburgh
RUSH MILLER, University Librarian, Director of University Library System, and Professor

WILLIAM NASRI, Professor Emeritus

EDIE RASMUSSEN, Professor, PhD, University of Sheffield

ARLENE TAYLOR, Professor, PhD, University of North Carolina, Chapel Hill

CHRISTINGER TOMER, Associate Professor, PhD, Case Western Reserve University

E. BLANCHE WOOLS, Professor Emerita

HONG XU, Assistant Professor, PhD, University of Illinois, Urbana-Champaign