

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	CAMPUS FACILITIES & STUDENT SERVICES	9
About the University	1	Academic Resources	9
History	1	University Library System	9
Accreditation	1	Barco Law Library	9
Academic Organization and Pittsburgh Campus Overview	1	Health Sciences Library System	9
Organization of Graduate and Professional Education at the University	2	Computing Services and Systems Development	10
APPLICATION FOR ADMISSION	3	Campus Computing Labs	10
Graduate Admissions	3	Network Authorization Accounts	10
Application Procedures	3	Network Port Connectivity	10
Application Deadlines	3	Computer Consulting Services	10
Graduate Admissions of International Students	3	Computer Sales and Digital Certification	10
International Student Application Deadlines and Application Fee	3	Computing Workshops and Training	10
International Student Academic Background and Credentials	3	Network Services	10
English Language Proficiency Requirements	4	Research and Academic Support	10
English Language Fluency for Teaching Assistants/Fellows	4	Center for Biotechnology and Bioengineering	10
Financial Support and Visa Documents	4	Center for Instructional Development & Distance Education (CIDDE)	11
Additional International Student Requirements	4	Center for Philosophy of Science	11
Admissions Status	4	English Language Institute	11
Full Graduate Status	4	Institutional Review Board	11
Provisional Graduate Status	5	Learning Research and Development Center (LRDC)	11
Special Status	5	Learning Skills Center	11
Guarantees and Early Admission to Graduate and First-Professional Programs	5	Office of Measurement and Evaluation of Teaching (OMET) ..	11
Tuition Deposit	5	Office of Research	11
Deferred Admission	5	University Center for International Studies (UCIS)	12
Readmission	5	University Center for Social and Urban Research (UCSUR)	12
Changing the Field of Graduate Study	5	Writing Center	12
FINANCIAL ISSUES:		Services for New Teaching Assistants	12
TUITION, FEES, LOANS, & SCHOLARSHIPS	6	Housing	12
Tuition	6	Student Resources	13
Tuition Deposit	6	Affirmative Action	13
Full Tuition	6	Athletics	13
Residency/Reduced Tuition	6	Book Centers	13
Eligibility for Reduced Tuition	6	Child Care	13
Financial Obligation of Students	6	Counseling Center	13
Fees	6	Disability Resources and Services	13
Financial Aid	7	Food Services	13
Teaching and Research Appointments	7	Health Care and Student Health Service	14
Teaching Assistants (TA)	7	ID Center	14
Teaching Fellows (TF)	7	International Services	14
Graduate Student Assistant (GSA)	7	Parking and Transportation	14
Graduate Student Researcher (GSR)	7	PITT ARTS	15
Fellowships and Traineeships	7	Placement Service	15
Scholarships	7	Public Safety	15
Stafford Loans	8	Sexual Assault Services	15
Lifetime Learning Tax Credits	8	Student Government	15
Deferred Payments	8	Student Organizations	16
Aid Deferrals	8	Survival Skills and Ethics Program	16
Deferred Tuition Payment Plan	8	Veterans Services	16
Payment	8	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

Cross Registration Credits	17	Interdisciplinary Doctoral Programs	26
Enrollment in Graduate Courses as an Undergraduate	17	Other Doctoral Degrees	26
Registration	18	Statute of Limitations/Leaves of Absence	26
Registering for Classes	18	Graduation	26
Full-Time and Part-Time Study	18	Requirements for Graduation	26
Maximum Credits per Term	18	Application to Graduate	27
Registration Status at Graduation	18	Certification for Graduation	27
Inactive Status	18	Commencement	27
Adding and Dropping Courses	18	Rights and Responsibilities	27
Auditing Courses	19	Academic Integrity Policy	27
Cross Registration	19	Affirmative Action and Non-Discrimination Policy	27
Registering for Two Independent		AIDS Policy	27
Degree Programs Simultaneously	19	Computing Use Policy	27
Registering for Cooperative-, Dual-, and		Copyright Policy	27
Joint-Degree Programs	19	Drug-Free School and Workplace Policy	28
Monitored Withdrawal from a Course	19	Faculty-Student Relationships	28
Resigning from the University for a Specific Term	19	Family Educational Rights and Privacy Act	28
Grading & Records	19	Graduate Student Researcher Policy Statement	28
QPA and GPA	19	Harassment Policies	28
Academic Standards	19	Human Research Subjects: Institutional Review Board	28
Grading System	19	Patent Policy	28
University Grading Options	20	Research Integrity	29
Letter Grades	20	Smoking Policy	29
Other Grades: Incomplete, Withdraw, Resign	20	Student Code of Conduct	29
Repeating Courses	20	Judicial System	29
Changing Grades	20	Teaching Assistant/Teaching Fellow/Graduate	
Academic Record	21	Student Assistant Policy Statement	29
Grade Report	21	SPECIAL ACADEMIC OPPORTUNITIES	30
Transcripts	21	Area of Concentration and Minors	30
Academic Honors	21	Certificate Programs	30
Probation, Suspension, and Dismissal	21	Cross Registration	30
Effect on Financial Aid and Scholarships	21	Two Independent Degree Programs	
Editorial Assistance and Publication		Simultaneously	30
of Theses/Dissertations	21	Cooperative-, Dual-, and Joint-Degree	
Editorial Assistance	21	Programs	30
Regulations Pertaining to Master of		SCHOOLS, DEPARTMENTS,	
Arts and Master of Science Degrees	21	AND PROGRAMS	31
MA and MS Requirements	22	Degree- and Certificate-Granting	
Comprehensive Examination	22	Programs	31
Thesis Option	22	FACULTY OF ARTS AND SCIENCES	34
Non-thesis Option	22	Contact Information	34
Regulations Pertaining to		Admissions	34
Professional Master's Degrees	22	Deferred Admission	34
Professional Master's Degree Requirements	22	Transferring Between FAS Departments	34
Regulations Pertaining to		Admission of International Students	34
Doctoral Degrees	23	Admission Status	35
Admission to Doctoral Study	23	Early Admission Program	35
Programs of Study	23	Inactive Status/Readmission	35
Credit Requirements	23	Financial Assistance	35
Residency Requirement	24	Teaching and Research Appointments	35
Preliminary Evaluation	24	Academic Standards	38
Comprehensive Examination	24	Credits and Grade Points	38
Doctoral Committee	24	Academic Probation and Dismissal	38
Overview or Prospectus Meeting	24	Withdrawal from Courses	38
Admission to Candidacy for the Doctor of		Repetition of Courses	38
Philosophy Degree	25	Grade Changes	38
Registering for Full-Time Dissertation Study	25		
Dissertation and Abstract	25		
Language of the Doctoral Dissertation	25		
Final Oral Examination	25		

Independent Study	38	Research	52
Directed Study	38	Analytical Chemistry	52
Transfer Credits	38	Biological Chemistry	52
Registration of Undergraduate Students for		Inorganic Chemistry	52
Graduate Credit	39	Organic Chemistry	52
Statute of Limitations and Leaves of Absence	39	Physical Chemistry	52
Advising and Placement	39	Facilities	52
FAS Degree Requirements	39	Chemical Physics Program	52
Requirements for the MA, MS, and MFA Degrees	39	Admissions	52
Credit Requirements	39	Information for Newly Admitted Students	52
Foreign Language Requirement	40	Degree Requirements	53
Comprehensive Examination	40	Requirements for the Master's Degree	53
Thesis	40	Requirements for the PhD Degree	53
Application for Graduation	40	Course Listings	53
Graduation Certification	40	Classics	54
Requirements for the PhD Degree	40	Contact Information	54
Credit Requirements	40	Research	54
Course Requirements	40	Facilities	54
Foreign Language and/or Other Tools of Research	40	Program in Classics, Philosophy, and Ancient Science	54
Preliminary Examination	40	Admissions	55
Comprehensive Examination	40	Financial Assistance	55
Doctoral Committee	40	Degree Requirements	55
Admission to Candidacy for the PhD Degree	40	Requirements for the Master of Arts Degree	55
Dissertation	41	Requirements for the PhD Degree	55
Language of the Doctoral Dissertation	41	Course Listings	55
Final Oral Examination	41	Communication	57
Multiple Degree Options	41	Contact Information	57
Department and Program Descriptions	42	Admissions	57
Anthropology	42	Financial Assistance	57
Contact Information	42	Degree Requirements	57
Admissions	42	Requirements for the Master's Degree	57
Financial Assistance	42	Requirements for the PhD Degree	57
Degree Requirements	42	Course Listings	57
Requirements for the Master's Degree	42	Additional Course Offerings	58
Requirements for the PhD Degree	43	Computer Science	58
Department Course Listings	45	Contact Information	58
Bioethics	47	Research	58
Contact Information	47	Facilities	58
Research	47	Interdisciplinary Programs	58
Facilities	47	Admissions	58
Other Opportunities	47	Prerequisites for Graduate Study	59
Admissions	47	Financial Assistance	59
Financial Assistance	48	Degree Requirements	59
Degree Requirements	48	Requirements for the Master's Degree	59
Requirements for the Master's Degree	48	Specialized Master of Science Tracks	59
Program Courses	48	Requirements for the PhD Degree	59
Biological Sciences	48	Course Listings	60
Contact Information	49	Cultural Studies	61
Research	49	Contact Information	61
Facilities	49	Publications	62
Interdepartmental Programs	49	Admissions	62
Structural Biophysics	49	Financial Assistance	62
MD/PhD Program	49	Requirements for the Master's Certificate	62
Admissions	49	Requirements for the Doctoral Certificate	62
Financial Assistance	50	Course Listings	62
Degree Requirements	50	East Asian Languages and Literatures	63
Requirements for the Master's Degree	50	Contact Information	63
Requirements for the PhD Degree	50	Admissions	63
Course Listings	50	Financial Assistance	63
Chemistry	52	Faculty Advisory Committee	63
Contact Information	52	Admission to the MA Program	63

Admission to the MA/MBA Joint-Degree Program	63	Hispanic Languages and Literatures	83
Degree Requirements	64	Contact Information	83
Requirements for the MA Degree in East Asian Studies	64	Admissions	83
Certificate in Asian Studies	64	Degree Requirements	83
Course Listings	64	Requirements for the Master of Arts in Hispanic Languages and Literatures	83
Economics	64	MA Program in Spanish with Certification for Teaching in Pennsylvania	84
Contact Information	65	Requirements for the PhD Degree	84
Admissions	65	Course Listings	84
Financial Assistance	65	History	85
Requirements for the Master's Degree	65	Contact Information	85
Requirements for the PhD Degree	65	Admissions	85
Course Listings	67	Financial Assistance	86
English	68	Degree Requirements	86
Contact Information	68	Requirements for the Master's Degree	86
Admissions	68	Requirements for the PhD Degree	86
Financial Assistance	68	Course Listings	87
Advising	68	History of Art and Architecture	88
Degree Requirements	68	Contact Information	88
Requirements for the Master's Degree	68	Research	88
Requirements for the PhD Degree	69	Facilities	88
Course Listings	70	Admission to the MA program	89
Film Studies	72	Admission to the PhD program	89
Contact Information	72	Financial Assistance	89
Research	72	Degree Requirements	89
Facilities	73	Requirements for the Master's Degree	89
Related Activities	73	Requirements for the PhD Degree	90
Admissions	73	Course Listings	90
Financial Assistance	73	History and Philosophy of Science	92
Advising/Oversight	73	Contact Information	92
Requirements for the Master's Certificate	73	Research and Facilities	92
Requirements for the Doctoral Certificate	73	Specialization in Early Modern Science	93
Transfer Credits	74	Program in Classics, Philosophy, and Ancient Science	93
Course Listings	74	Related Activities	93
French and Italian Languages and Literatures	75	Admissions	93
Contact Information	75	Financial Assistance	93
Admissions	75	Degree Requirements	93
Financial Assistance	75	Requirements for the Master's Degree	93
Degree Requirements	75	Requirements for the PhD Degree	94
Requirements for the Master of Arts in French	75	Course Listings	94
Requirements for Master of Arts in Italian	76	Intelligent Systems Program	95
Requirements for the PhD Degree	76	Contact Information	96
Admission to Candidacy	76	Research	96
Course Listings	77	Computational Resources	96
Geology and Planetary Science	78	Admissions	96
Contact Information	78	Financial Assistance	97
Research	78	Degree Requirements	97
Facilities	78	Requirements for the Master's Degree	97
Admissions	79	Requirements for the PhD Degree	97
Financial Assistance	79	Course Requirements for Standard (Non-Medical Informatics) Track	97
Degree Requirements	79	Master's Thesis and Doctoral Dissertation Requirements	98
Course Listings	80	Requirements for Medical Informatics Track	98
Germanic Languages and Literatures	81	Course Listings	99
Contact Information	81	Linguistics	99
Admissions	81	Contact Information	99
Financial Assistance	81	Facilities	99
Degree Requirements	81	English Language Institute	99
Course Listings	82	Language Acquisition Institute	99
		Language Laboratory	99

Admissions	100	Admissions	113
Financial Assistance	100	Financial Assistance	113
Degree Requirements	100	Degree Requirements	114
Requirements for the Master's Degree	100	Requirements for the Master's Degree	114
Course Requirements for Specialization in Applied Linguistics	100	Requirements for the PhD Degree	114
Requirements for the PhD Degree	101	Course Listings	114
Requirements for the Certificate in TESOL	101	Political Science	115
Course Listings	101	Contact Information	115
Mathematics	102	Admissions	115
Contact Information	102	Financial Assistance	115
Research	102	Degree Requirements	115
Facilities	102	Requirements for the Master's Degree	115
Admissions	102	Requirements for the PhD Degree	116
Financial Assistance	102	Course Listings	116
Degree Requirements	103	Psychology	119
Requirements for the Master's Degree	103	Contact Information	119
Requirements for the PhD Degree	103	Research	119
Course Listings	103	Facilities	119
Medieval and Renaissance Studies	104	Admissions	119
Contact Information	104	Financial Assistance	119
Library Resources	104	Degree Requirements	119
Special Features	105	Requirements for the Master's Degree	119
Admissions	105	Requirements for the PhD Degree	119
Financial Assistance	105	Course Listings	120
Requirements for the Certificate	105	Religious Studies	121
Course Listings	105	Contact Information	121
Music	105	Admissions	121
Contact Information	105	Financial Assistance	121
Program in Composition and Theory	105	Degree Requirements	122
Program in Ethnomusicology	106	Requirements for the Master's Degree	122
Program in Historical Musicology	106	Requirements for the PhD Degree	122
Admissions	106	Course Listings	123
Application Deadlines	106	Slavic Languages and Literatures	125
Financial Assistance	106	Contact Information	125
Degree Requirements	106	Admissions	125
Requirements for the Master's Degree	107	Financial Assistance	125
Requirements for the PhD Degree	107	Degree Requirements	125
Course Listings	108	Requirements for the Master's Degree	125
Neuroscience	108	Requirements for the PhD Program	126
Contact Information	108	Course Listings	127
Research	109	Sociology	128
Admissions	109	Contact Information	128
Degree Requirements	109	Facilities	128
Financial Assistance	109	Publications	128
Philosophy	109	Admissions	128
Contact Information	109	Financial Assistance	129
The Center for Philosophy of Science	110	Degree Requirements	129
Program in Classics, Philosophy, and Ancient Science	110	Requirements for the Master's Degree	129
The Department of History and Philosophy of Science	110	Requirements for the PhD Degree	129
Admissions	110	Course Listings	129
Financial Assistance	110	Statistics	130
Degree Requirements	110	Contact Information	130
Requirements for the Master's Degree	110	Research	130
Requirements for the PhD Degree	110	Facilities	130
Course Listings	111	Admissions	130
Physics and Astronomy	112	Financial Assistance	131
Contact Information	112	Degree Requirements	131
Research	112	Requirements for the Master's Degree	131
Facilities	113	Requirements for the PhD Degree	131
		Course Listings	131

Theatre Arts	132	MBA/Master of Science in the Management of Information Systems (MS-MIS) Program	159
Contact Information	132	MBA/Master of International Business (MIB)	159
Theatrical Production at the University	132	MBA/Master of Arts	159
Theatre Resources in Pittsburgh	132	MBA/Master of Public and International Affairs (MPIA)	159
Admissions	133	Master of Health Administration (MHA) and (MHA/MBA)	159
Financial Assistance	133	MBA/Joint Degree in Business and Law (MBA/JD)	159
Degree Requirements	133	Executive MBA	160
Requirements for the Master's Degree	133	International Executive MBA	160
MA in Theatre Arts	133	MBA Course Listings	160
MFA in Theatre Arts	133		
Requirements for the PhD Degree	133	Doctoral Program	161
Course Listings	133	Contact Information	161
Women's Studies	134	Application Procedures	161
Contact Information	135	Financial Aid	161
Certificate Program	135	Sequence of Study	162
Directed Study	135	Timeline to Graduation	162
Course Listings	135	Placement	162
FAS Administration	136	Individual Program Design	162
FAS Faculty	136	Accounting	162
Department of Africana Studies	136	Artificial Intelligence	163
Department of Anthropology	136	Business Environment, Ethics, and Public Policy	163
Department of Biological Sciences	137	Finance	164
Department of Chemistry	138	Information Systems	164
Department of Classics	139	Marketing	165
Department of Communication	139	Operations and Decision Sciences	165
Department of Computer Science	139	Organizational Behavior and Human Resource Management	165
Department of East Asian Languages and Literatures	140	Strategic Planning and Organizational Studies	166
Department of Economics	140	PhD Course Listings	166
Department of English	140		
Department of French and Italian Languages and Literatures	141	Katz Graduate School of Business Faculty	167
Department of Geology and Planetary Science	142		
Department of Germanic Languages and Literatures	143	SCHOOL OF DENTAL MEDICINE	170
Department of Hispanic Languages and Literatures	143	Contact Information	170
Department of History	143	Residency Training Programs	170
Department of History of Art and Architecture	144	Admission Information	170
Department of History and Philosophy of Science	144	Selection Process Criteria	171
Department of Linguistics	144	Core Curriculum	171
Department of Mathematics	145	Advanced Education in General Dentistry	171
Department of Music	145	Certificate in Dental Anesthesiology	171
Center for Neuroscience	146	Dental Public Health	172
Department of Philosophy	147	MDS and Certificate Programs in Endodontics	172
Department of Physics and Astronomy	148	Maxillofacial Prosthetics	173
Department of Political Science	149	Oral and Maxillofacial Surgery	173
Department of Psychology	150	MDS and Orthodontics and Dentofacial Orthopedics	174
Department of Religious Studies	150	Advanced Pediatric Dentistry	174
Department of Slavic Languages and Literatures	151	MDS and Periodontics	175
Department of Sociology	151	MDS and Prosthodontics	175
Department of Statistics	151		
Department of Studio Arts	151	School of Dental Medicine Faculty	175
Department of Theatre Arts	152		
KATZ GRADUATE SCHOOL OF BUSINESS	153	SCHOOL OF EDUCATION	176
Contact Information	153	Contact Information	176
Application Procedures	153	Types of Programs Offered	176
Degree Options	153	Admission	176
Special Academic Opportunities	153	Changing Programs for Graduate Study	178
Graduation	154	Financial Assistance	178
MBA Program Descriptions	154	Advising	179
Full-Time MBA Program	154	Teacher Education Regulations	179
Part-Time/Evening MBA Program	158		

Master's Degree Requirements	180	General Special Education	202
Common Requirements	181	Vision Studies Specialization	202
Quality Point Average/Academic Probation	181	Department of Instruction and Learning Course Listings	202
Statute of Limitations	181		
Plan of Studies	181	Department of Psychology in	
Master's Comprehensive Examination	182	Education	207
Master's Degree with Thesis	182	Child Development and Child Care (CD&CC) Program	207
Master's Degree with Thesis Equivalent	182	Contact Information	207
Graduation Requirements	183	Admission Application Process	208
Doctoral Degree Requirements	183	Financial Assistance	208
Credit Requirements	184	Advising and Placement	208
Statute of Limitations	184	CD&CC Program Requirements	208
Doctoral Preliminary Examination	185	CD&CC Curriculum	208
Advancement to Doctoral Study	185	Specializations	209
Doctoral Comprehensive Examination	185	Child Development and Child Care Courses	209
Dissertation Overview	186	School Counseling Program	209
Approval of Research with Human Subjects	186	Admission to School Counseling Program	209
Advancement to Doctoral Candidacy	186	School Counseling Degree and Certification Options	209
Dissertation	186	Developmental and Educational Psychology Program	210
		Admission to Developmental and	
Department of Administrative and		Educational Psychology Program	210
Policy Studies	187	Research Methodology Program	210
Admission	187	Admission to Research Methodology Program	210
School Leadership Development Program	187	Research Methodology Program Degree Options	211
Higher Education Administration Program	188	Department of Psychology in Education Courses	211
Social and Comparative Analysis in Education			
(SCAE)	188	School of Education Faculty	212
Department of Administrative and Policy		Department of Administrative and Policy Studies	212
Studies Courses	188	Department of Health, Physical, and Recreation Education	213
		Department of Instruction and Learning	213
Department of Health, Physical, and		Department of Psychology in Education	215
Recreation Education	190		
Contact Information	190	SCHOOL OF ENGINEERING	216
Admission	190	Contact Information	216
Degree Options	190	Admissions	216
Developmental Movement Program	191	Financial Aid	217
Exercise Physiology Program	191	Advisors	217
Health Promotion and Education Program	191	Responsibility for Academic Progress	217
Sports Medicine Program	191	Master of Science Programs	217
Department of Health, Physical, and		Doctor of Philosophy Programs	218
Recreation Education Courses	191	Entrance to the PhD Program	218
		Course and Dissertation Credit Requirements	218
Department of Instruction and		Doctor of Philosophy Examinations	218
Learning	192	Preliminary Examination (Qualifier)	218
Admission	192	Comprehensive Examination	218
Cognitive Studies Program	192	Final Oral Examination (Defense)	219
Early Childhood Education Program	193	Admission to PhD Candidacy	219
Elementary Education Program	194	Doctoral Committee	219
Reading Education Program	194	PhD Dissertation	219
Secondary Education Program	195		
English/Communications Education Specialization	195	Department of Bioengineering	219
Mathematics Education Specialization	196	Contact Information	219
Science Education Specialization	196	Master of Science Programs	220
Social Studies Education Specialization	198	Doctor of Philosophy Program	220
Foreign Language Education Specialization	198	Bioengineering Graduate Courses	220
Special Education Program	199		
Supervisor of Special Education	200	Department of Chemical and	
Special Education Doctoral Degrees	200	Petroleum Engineering	220
Admission to Doctoral Programs in Special Education	200	Contact Information	221
Education of Deaf and Hard-of-Hearing Students		Master of Science in Chemical Engineering	
Specialization	200	(Research-Oriented Program)	221
Early Intervention for Children with Disabilities		Master of Science in Chemical Engineering	
Specialization	201	(Professional Engineer Program)	221
Mental and Physical Disabilities Specialization	201	Master of Science in Petroleum Engineering	221
		Dual Master's Degree	222

Doctor of Philosophy Degree	222	Non-thesis Option	238
Graduate Chemical Engineering Courses	223	Graduation Requirements	238
Graduate Petroleum Engineering Courses	223		
Civil and Environmental Engineering		Master of Arts and	
Department	224	Master of Science Programs	238
Graduate Regulations in Civil Engineering	224	Clinical Dietetics/Nutrition	239
Advising	224	Clinical Dietetics/Nutrition Curriculum	239
Master of Science in Civil Engineering	224	Thesis or Non-thesis Options	239
Joint Master's Degree	224	Required Courses	239
Doctor of Philosophy Degree Requirements	224	Electives	239
Graduate Civil Engineering Courses	225	Communication Science and Disorders:	
Electrical Engineering Department	226	Master's Degree Program	239
Graduate Student Support	227	General Program Requirements	239
Joint Electrical Engineering-Mathematics		Master's Program in Speech-Language	
Master of Science Program	227	Pathology	240
Graduate Regulations in Electrical Engineering	227	Master's Program in Audiology	240
Master of Science in Electrical Engineering	227	Health Information Systems	241
Doctor of Philosophy	227	Health Care Supervision and Management (HSM)	242
Graduate Electrical Engineering Courses	228	Occupational Therapy	242
Industrial Engineering Department	228	Physical Therapy	243
Admission Requirements	228	Admission Requirements	243
Master of Science in Industrial Engineering	228	Financial Assistance	243
Doctoral Program in Industrial Engineering	229	Basis for Plan of Study	243
Graduate Industrial Engineering Courses	229	Comprehensive Examinations	243
Materials Science and		Physical Therapy Curriculum	243
Engineering Department	230	Rehabilitation Science And Technology	244
Contact Information	230	Admission Requirements	245
Master of Science Program	230	RST Curriculum	245
Doctor of Philosophy Program	230	Specialty Curriculum Pathways	245
Graduate Materials Science and Engineering Courses	231	Certificate Program in Assistive and	
Mechanical Engineering Department	231	Rehabilitation Technology	246
Departmental Regulations	231	Doctor of Philosophy Programs	246
Admissions	231	Residency and Registration Requirements	246
Master of Science Program	231	Active Status	246
Dynamic Systems	231	Probation and Dismissal	246
Fluid Mechanics	232	Doctor of Philosophy in Communication Science	
Solid Mechanics Area	232	and Disorders	246
Thermal Systems	232	Admission Requirements	247
Doctor of Philosophy Program	232	Financial Assistance	247
Graduate Mechanical Engineering Courses	232	Program Requirements	247
School of Engineering Faculty	233	Doctor of Philosophy in Rehabilitation Science	248
Bioengineering Department	233	Admission Requirements	248
Chemical and Petroleum Engineering Department	233	Financial Assistance	249
Civil and Environmental Engineering Department	234	Program Requirements	249
Electrical Engineering Department	234	Transfer of Credits	249
Industrial Engineering Department	235	Core Areas	249
Materials Science and Engineering Department	235	Academic Advisor	249
Mechanical Engineering Department	236	Plan of Study	249
SCHOOL OF HEALTH AND		Preliminary Examination	249
REHABILITATION SCIENCES	237	Doctoral Committee and Committee Chair	250
Contact Information	237	Comprehensive Examination and Dissertation Proposal	250
Admissions: Master's Degree Programs	237	Dissertation	250
Application Procedures	238	Entry-Level Professional Programs:	
Application Deadlines	238	MOT and MPT	250
International Student Applicants	238	Contact Information	250
Academic Standards	238	Master of Occupational Therapy (MOT)	251
Maintenance of Active Status	238	Admission Requirements	251
Readmission	238	Application Process and Deadline	251
Academic Probation	238	Admission Status	252
		Master of Occupational Therapy Curriculum	252
		Master of Occupational Therapy Course Listings	252

Master of Physical Therapy (MPT)	252	Department of Library and Information Science	266
Admission Requirements	252	Contact Information	266
Application Process	253	Admissions	266
Admission Status	253	Master of Library and Information Science (MLIS) Program	266
Statute of Limitations	253	MLIS Degree Requirements	266
Master of Physical Therapy Curriculum	253	Doctor of Philosophy in Library and Information Science (PhD - LIS) Program	267
COURSE LISTINGS	254	PhD - LIS Admission Requirements	267
Master of Physical Therapy	254	PhD - LIS Degree Requirements	267
SHRS Graduate	254	Statute of Limitations	268
Communication Science and Disorders	255	School Library Certification Program (SLCP)	268
School of Health and Rehabilitation Sciences Faculty	256	Supervisor of Library Science Certification (SLSC) Program	268
Department of Clinical Dietetics	256	Certificate of Advanced Study in Library and Information Science (CAS/LIS) Program	269
Department of Communication Science and Disorders	256	DLIS Course Listings	269
Department of Health Information Management	256	School of Information Sciences Faculty	270
Department of Occupational Therapy	256	Department of Information Science and Telecommunications	270
Department of Physical Therapy	257	Department of Library and Information Science	270
Department of Rehabilitation Science and Technology	257	SCHOOL OF LAW-MSL DEGREE	272
SCHOOL OF INFORMATION SCIENCES	258	Contact Information	272
Mission of the School	258	Admissions	272
Goals of the School	258	Financial Assistance	272
Contact Information	258	Academic Standards	272
Admission	258	Advising and Placement	272
Financial Assistance	259	Degree Requirements	272
Academic Standards	259	Major and Degree Options	272
Transfer of Credits	259	Faculty of School	272
Satisfactory/Audit (S/N) Grading System	259	SCHOOL OF MEDICINE	273
Advising and Placement	259	Clinical Research Training Program (CRTP)	273
Major and Degree Options	259	Contact Information	273
Special Academic Opportunities/Programs	260	Interdisciplinary Biomedical Science Graduate Program	273
Colloquia	260	Contact Information	273
Continuing Education	260	Admissions	273
Student Organizations	260	Financial Assistance	274
Alumni Association	260	Academic Standards	274
Beta Phi Mu	260	General Degree Requirements – All Interdisciplinary Biomedical Science Students	274
Department of Information Science and Telecommunications	260	Biochemistry and Molecular Genetics Program	274
Contact Information	261	Cell Biology and Physiology Program	274
Admissions	261	Cellular and Molecular Pathology Program	275
Registration and Residence Requirements	261	Human Genetics Program	275
Master of Science in Information Science (MSIS) Program	261	Immunology Program	275
MSIS Admission Prerequisites	262	Molecular Pharmacology Program	275
MSIS Degree Requirements	262	Molecular Toxicology Program	276
MSIS Statute of Limitations	262	Molecular Virology and Microbiology Program	276
Master of Science in Telecommunications (MST) Program	262	Neurobiology	276
MST Admission Prerequisites	262	Interdisciplinary Biomedical Science Graduate Program Faculty	277
MST Requirements	262		
MST Statute of Limitations	262		
Doctor of Philosophy in Information Science (PhD - IS) Program	262		
PhD - IS Admission Requirements	263		
PhD - IS Degree Requirements	263		
PhD Statute of Limitations	263		
Telecommunications Concentration	263		
Certificates – Information Science and Telecommunications	264		
DIST Course Listings	264		
Graduate Courses in Telecommunications	265		

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 the 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 and Master of Public Health (Non-Physician) Students	313
PhD Students	313
MPH Students in Occupational Medicine	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

Departmental Core Courses	315	MS Program Requirements	323
Master's Program Course Requirements	315	MPH Program Requirements	323
Doctoral Program Requirements	315		
Additional Frequently Used Courses	315		
Department of Health Services		Multidisciplinary Master of Public Health Program	323
Administration	316	Contact Information	323
Affiliated Educational Certificate Programs	316	Program Requirements	323
Certification in Public Health and Aging	316	GSPH Course Offerings	324
Management of Nonprofit Organization		Graduate School of Public Health Faculty	326
Certification Program	316		
Certificate in Women's Studies	317	GRADUATE SCHOOL OF PUBLIC AND INTERNATIONAL AFFAIRS	333
Certificate in Latin American Studies	317	Contact Information	333
Research Focus	317	Admissions	333
Contact Information	317	Non-Degree Admission	334
Admission: MPH Applicants	317	Admission Prerequisites	334
Admission: MPH/PhD in Social Work Applicants	317	Admission Deadlines	334
Admission: MHPE Applicants	318	Financial Assistance	334
Admission: MPH/JD Applicants	318	Academic Standards	334
Admission: MHA, MHA/MBA, and		Advising and Placement	334
MHA/MPH Applicants	318	Master's Degree Requirements	335
Admission: DrPH Applicants	318	Major and Degree Options	335
Financial Assistance	318	Special Academic Opportunities/Programs	336
Requirements for Master's Degrees	318	Master of Public Administration (MPA)	336
Master of Public Health (MPH) Requirements	318	Requirements for the Master of	
MPH/JD Requirements	318	Public Administration	336
MPH/PhD in Social Work Requirements	319	Policy Research and Analysis (PRA)	337
MPH/MPA and MPH/MPIA Requirements	319	Required courses	337
Master of Health Promotion and Education		Public and Nonprofit Management (PNM)	337
(MHPE) Requirements	319	Required courses	337
Master of Health Administration (MHA) Requirements	319	Urban and Regional Affairs (URA)	337
Requirements for the Doctor of		Required courses	337
Public Health Program	319	Criminal Justice (CJ) Minor	338
Requirements for Certificate Programs	319	Environmental Management and Policy	
Certification in Public Health and Aging	319	(EMP) Minor	338
Management of Nonprofit Organizations		Nonprofit and Nongovernmental Organizations	
Certification Program	319	(NGO) Minor	338
Certificate in Women's Studies	319	Personnel and Labor Relations Minor	338
Certificate in Latin American Studies	319	Requirements for the Certificate in	
		Personnel and Labor Relations	339
Department of Human Genetics	319	MPA Program Course Listings	339
Major Educational Areas and Programs	320	Master of Public and International Affairs (MPIA)	340
Human Genetics	320	Requirements for Masters of Public and	
Genetic Counseling	320	International Affairs	340
Research	320	Economic and Social Development Major (MPIA/ESD)	340
Contact Information	320	Human Resource Management in Development	341
Admission	320	Global Political Economy Major	341
Financial Assistance	320	Security and Intelligence Studies Major	342
Program Requirements	320	MPIA Program Course Listings	342
MS in Human Genetics Requirements	320	Master of Public Policy and Management (MPPM)	343
MS in Genetic Counseling Requirements	321	Requirements for Masters of Public Policy	
PhD Human Genetics Requirements	321	and Management (MPPM)	343
Department of Infectious Diseases and Microbiology (IDM)	321	Doctor of Philosophy in Public and International Affairs	343
Contact Information	321	Requirements for the PhD	343
Admission	321	Advanced Standing	344
Early Admission into the PhD and MS Programs	321	Mentors	344
Standard Admission into the PhD and MS Programs	322	Preliminary Planning Meeting	344
Financial Assistance	322		
Program Requirements	322		
Requirements for Master's and Doctoral Degrees	322		
Requirements for PhD	322		
DrPH Program Requirements	322		

Annual Reviews	344	Interdisciplinary Components of	
Doctoral Core Courses	344	Doctoral Curriculum	362
Other Courses	344	Specialization In Mental Health Services Research	362
Language Requirements	344	CSWE Requirements for School of	
Fields of Study	344	Social Work Faculty Positions	362
Policy Issue Area Field	344	Comprehensive Examination	363
Research and Technical Skills Field	344	Doctoral Dissertation	363
Comprehensive Examinations	344	PhD Courses	363
Dissertation	345	School of Social Work Faculty	363
Colloquium	345	UNIVERSITY CENTER FOR	
Defense	345	INTERNATIONAL STUDIES	365
Doctoral Program Course Listing	345	Contact Information	365
Graduate School of Public and		Admission to Certificate Programs	365
International Affairs Faculty	345	Advising	365
SCHOOL OF SOCIAL WORK	347	Certificate Requirements	365
Admissions	347	Major and Degree Options	365
Financial Assistance	348	Asian Studies Program	365
Academic Standards	348	Asian Studies Certificate Requirements	366
NASW Code of Ethics	349	Financial Assistance	366
Advising and Placement	349	Asian Studies Program — Graduate Course Listing	366
MSW and PhD Degree Requirements	350	Latin American Studies	370
Degree Options	350	Admissions to Center for Latin American Studies	370
MSW Joint and Cooperative Degree Programs	350	Financial Assistance	370
PhD Joint Degree Programs	351	Requirements for Certificates	370
Special Academic Opportunities	351	Graduate Certificate in Latin American Studies	370
Master of Social Work	351	Graduate Certificate in Latin American Social	
MSW Admissions Information	352	and Public Policy	371
Financial Assistance for MSW Students	353	Center for Latin American Studies Course List	371
MSW Degree Requirements	353	West European Studies	372
MSW Academic Standards: Probation	353	Financial Assistance	373
Part-Time MSW Students	353	Requirements for the Certificate	373
Advanced Standing and Exemptions for		West European Studies Course List	373
MSW Course Work	353	East European Studies, Russian	
Organization of the MSW Curriculum	353	Studies, and Soviet Studies	376
Foundation Curriculum	353	Financial Assistance	377
Concentration Curricula	354	Requirements for REES Certificates	377
Community Organization and Social		REES Course List	377
Administration (COSA) Concentration	354	FIRST-PROFESSIONAL PROGRAMS	380
Direct Practice with Individuals, Families,		SCHOOL OF DENTAL MEDICINE	381
and Groups Concentration	355	Contact Information	381
Direct Practice Certificate Programs	357	Admissions Requirements	381
MSW Courses	358	Selection of Students	382
Post-Master's Certificate Programs	359	Transfer Students	382
Post-Master's Family Therapy Certificate	359	Financial Assistance	382
Admission Requirements	359	Scholarships	382
Post-Master's Employee Assistance		Loans	382
Program Certificate	359	Academic Standards: Professional/Ethical	
Admission Requirements	360	Conduct Statement For Students	383
Post-Master's Home and School Visitor		Grading	383
Certification Program	360	DMD Program Requirements	383
Doctor of Philosophy Program	360	DMD Curriculum	383
Admission to Doctoral Program	360	School of Dental Medicine Faculty	384
Program Transfer Credits	361		
Financial Assistance for Doctoral Students	361		
Doctoral Curriculum Objectives	361		
Doctoral Requirements	361		
Grades in Course Work	362		
Program Flexibility and Individualization	362		
Core Doctoral Curriculum	362		

SCHOOL OF LAW	387	Department of Ophthalmology	410
Contact Information	387	Department of Orthopaedic Surgery	411
Admissions	387	Department of Otolaryngology	412
Admission: Transfer and Visiting Students	387	Department of Pathology	413
Flex-Time Program	387	Department of Pediatrics	415
Financial Assistance	388	Department of Pharmacology	418
Academic Standards	388	Department of Physical Medicine and Rehabilitation	418
Advising and Placement	388	Department of Psychiatry	419
Degree Requirements	389	Department of Radiation Oncology	422
Joint Degree Options	389	Department of Radiology	423
Law and Public Administration (JD/MPA)	389	Department of Surgery	424
Law and International Affairs (JD/MPA)	389	Department of Urology	427
Law and Business Administration (JD/MBA)	389		
Law and Public Health (JD/MPH)	389	SCHOOL OF PHARMACY	429
Law and Bioethics (JD/MA)	389	Contact Information	429
Law and Industrial Management (JD/MSIA)	389	Admissions Requirements and Application Deadlines	429
Law and Public Management (JD/MS)	389	Admission Options	430
Law and Arts Management (JD/MAM)	389	Conditional Admission	430
Special Academic Opportunities/Programs	389	Open Admission	430
Health Law Certificate Program	389	Application Procedure	430
Environmental Law, Science, and Policy Certificate Program	390	Tuition Deposit	430
International and Comparative Law Certificate Program	391	Financial Assistance: University-Wide and School-Specific	430
		Academic and Professional Standards	431
LLM Program for Foreign Law Graduates	391	Advising	432
Admission to LLM Program for Foreign Law Graduates ..	391	Placement	432
Financial Assistance	392	Degree Requirements	432
Academic Standards	392	Special Academic Opportunities/Programs	432
Advising and Placement	392		
Degree Requirements	392	Program Description	432
Special Academic Opportunities/Programs: Center for International Legal Education	392	School of Pharmacy Course Offerings	433
		School of Pharmacy Faculty	433
School of Law Faculty	392	ADMINISTRATIVE OFFICERS	437
		BOARD OF TRUSTEES	437
SCHOOL OF MEDICINE	394	DEANS OF THE UNIVERSITY, PITTSBURGH CAMPUS	437
Contact Information	394	SCHOOLS AND CAMPUSES	437
Requirements for Admission	394		
International Applicants	394	ACADEMIC CALENDAR 2001-2004	438
Application Procedures and Deadline	394		
Financial Aid	395	INDEX	441
Academic Standards	395		
Grading	395	MAP	452
Advising	396		
Degree Requirements	396	NONDISCRIMINATION POLICY STATEMENT	454
Degree Options	396		
School of Medicine Faculty	396		
Department of Anesthesiology	396		
Department of Cell Biology and Physiology	399		
Department of Dermatology	399		
Department of Emergency Medicine	400		
Department of Family Medicine and Clinical Epidemiology	400		
Department of Medicine	400		
Department of Molecular Genetics and Biochemistry	406		
Department of Neurobiology	407		
Department of Neurology	408		
Department of Neurosurgery	408		
Department of Obstetrics, Gynecology, and Reproductive Sciences	409		

UNIVERSITY OF PITTSBURGH



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.

2 UNIVERSITY OF PITTSBURGH

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, LL.M., Pharm.D., 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

issued in a language other than English must be accompanied by a certified English translation.

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:

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

* 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/~oafa>. Information on Stafford Loans is available online at <http://www.finaid.org/loans/studentloan.phtml>; 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_qa/sec2.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@srfs.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 Scaife 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 toxicology information. HSL Online includes the following databases and information services: MEDLINE, AIDSLine, CancerLit, Bioethicsline, HealthStar, CINAHL, PsycINFO, 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 University-recommended computer systems and for instructions on obtaining a digital certificate. 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.lrdc.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 certificates 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.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.

Ruskin 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 Ruskin 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/intramurals/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/~pittrx> 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 G1N30 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/~srfswb/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/crseinPgCrslInfo.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

REGISTERING 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/~srfsweb/crseinPgCrInfo.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/irweb/tuition/tuithmpg.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 DROPPING 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 one of the above colleges as guest students, but they must pay that institution's tuition and fees. Students are discouraged from cross registering during their term of graduation to avoid any delays in the receipt of course credit needed to graduate. Students should meet with their advisor before they cross register. *See also Cross Registration Credit.*

REGISTERING FOR 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. Normally, such students should be enrolled for no more than a total of 15 credits per term. Special approvals and regulations apply before a student is allowed to register for courses in pursuit of two independent graduate degrees. *See Special Academic Opportunities, page 30, for further detail.*

REGISTERING FOR 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. 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.

RESIGNING 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 QPA. The grades N and U are not counted toward graduation or the QPA. 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 QPA.

LETTER GRADES

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

Grade		Quality Points
A+	=	4.00
A	=	4.00 Superior Attainment
A-	=	3.75
B+	=	3.25
B	=	3.00 Adequate graduate-level attainment
B-	=	2.75
C+	=	2.25
C	=	2.00 Minimal graduate-level attainment
C-	=	1.75
D+	=	1.25
D	=	1.00
D-	=	0.75
F	=	0.00 Failure

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 QPA, 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 THESES/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 THESES AND 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 training and expertise within the broader discipline. Minors represent significant coursework completed in an area related to 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 and 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/HOME/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/~srfswb/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 the 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/HOME/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 Conduct 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/~osaweb/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

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.

SCHOOLS, DEPARTMENTS, AND PROGRAMS

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, LL.M., 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, LL.M., 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.

Program	Degree(s) Offered	Academic Center ¹
Acute Care Nurse Practitioner	MSN	Nursing
Administrative and Policy Studies	MA, MEd, EdD, PhD	Education
Anatomy-Histology	Certificate	Dental Medicine
Anesthesiology	Certificate	Dental Medicine
Anthropology	MA, PhD	FAS
Applied Mathematics	MA, M	FAS
Applied Statistics	MA, MS	FAS
Area Studies	MBA/MA	Business/FAS
Asian Studies	Certificate	UCIS
Astronomy	MS, PhD	FAS
Behavioral and Community Health Sciences	MPH	GSPH
Biochemistry & Molecular Genetics	MS, PhD	Medicine
Bioengineering	MSBeng, PhD	Engineering

Program	Degree(s) Offered	Academic Center ¹
Bioethics	MA	FAS
Biological Sciences	MS, PhD	FAS
Biostatistics	MPH, MS, DrPH, PhD	GSPH
Business Administration	MBA, PhD	Business
Cell Biology and Molecular Physiology	MS, PhD	Medicine
Cellular and Molecular Pathology	MS, PhD	Medicine
Chemical Engineering	MSChE, PhD	Engineering
Chemistry	MS, PhD	FAS
Civil & Environmental Engineering	MSCEE, PhD	Engineering
Civil Litigation	Certificate	Law
Classics	MA, PhD	FAS
Clinical Cardiovascular Engineering	Certificate	Engineering
Clinical Research	MS, Certificate	Medicine
Communication Science and Disorders	MA, MS, PhD	SHRS
Computer Science	MS, PhD	FAS
Cultural Studies	Certificate	FAS
Dental Medicine	DMD	Dental Medicine
East Asian Studies	MA	FAS
Eastern European Studies	Certificate	UCIS
Economics	MA, PhD	FAS
Economic and Social Development	MPIA	GSPH
Electrical Engineering	MSEE, PhD	Engineering
Employee Assistance Program	Certificate	Social Work
Endodontics	Certificate, MDS	Dental Medicine
English	MA, MFA, PhD	FAS
Environmental and Occupational Health	MS, MPH, PhD	GSPH
Environmental Health Risk Assessment	Certificate	GSPH
Environmental Law, Science, and Policy	Certificate	Law
Epidemiology	MPH, MS, DrPH, PhD	GSPH
Family and Marital Therapy	Certificate	Social Work
Film Studies	Certificate	FAS
French	MA, PhD	FAS
Genetic Counseling	MS	GSPH
Geology and Planetary Science	MS, PhD	FAS
Germanic Languages & Literatures	MA, PhD	FAS
Gerontology	Certificate	Social Work
Global Political Economy	MPIA	GSPH
Health Administration	MHA	GSPH
Health and Community Systems	MSN	Nursing
Health Law	Certificate	Law

Program	Degree(s) Offered	Academic Center¹
Health, Physical, and Recreation Education	MS, PhD	Education
Health Promotion and Development	MSN	Nursing
Health Promotion and Education	MHPE	Education/GSPH
Health and Rehabilitation Sciences	MS	SHRS
Health Services Administration	DrPH	GSPH
Hispanic Languages & Literatures	MA, PhD	FAS
History	MA, PhD	FAS
History & Philosophy of Science	MA, PhD	FAS
History of Art & Architecture	MA, PhD	FAS
Human Genetics	MS, PhD	GSPH
Immunology	MS, PhD	Medicine
Industrial Engineering	MSIE, PhD	Engineering
Infectious Diseases & Microbiology	MPH, MS, DrPH, PhD	GSPH
Information Science	Certificate, MSIS, PhD	SIS
Instruction and Learning	MA, MAT, MEd, MS, EdD, PhD	Education
Intelligent Systems	MS, PhD	FAS
International Business	MBA/MIB	Business
International and Comparative Law	LLM	Law
International and Comparative Law	Certificate	Law
Italian Languages & Literatures	MA	FAS
Latin American Social and Public Policy	Certificate	UCIS
Latin American Studies	Certificate	UCIS
Law	JD	Law
Library and Information Science	Certificate, MLIS, PhD	SIS
Linguistics	MA, PhD	FAS
Management of Information Systems	MS	Business
Management Program for Health Professionals	Certificate	Nursing/GSPH
Manufacturing Systems Engineering	MSMfSE	Engineering
Materials Science & Engineering	MSMSE, PhD	Engineering
Mathematics	MA, MS, PhD	FAS
Maxillofacial Prosthetics	Certificate	Dental Medicine
Mechanical Engineering	MSME, PhD	Engineering
Medicine	MD	Medicine
Medieval and Renaissance Studies	Certificate	FAS
Molecular Pharmacology	MS, PhD	Medicine
Molecular Virology & Microbiology	MS, PhD	Medicine
Multidisciplinary MPH	MPH (limited enrollment)	GSPH
Music	MA, PhD	FAS
Neurobiology	MS, PhD	Medicine
Neuroscience	MS, PhD	FAS
Nurse Anesthesia	MSN	Nursing

Program	Degree(s) Offered	Academic Center¹
Nursing	PhD	Nursing
Occupational Medicine	MPH	GSPH
Occupational Therapy	MOT	SHRS
Orthodontics	Certificate, MDS	Dental Medicine
Periodontics	MDS	Dental Medicine
Petroleum Engineering	MSPE	Engineering
Philosophy	MA, PhD	FAS
Pharmaceutical Sciences	MS, PhD	Pharmacy
Pharmacy	PharmD	Pharmacy
Physical Therapy	MPT	SHRS
Physics	MS, PhD	FAS
Policy Research and Analysis	MPA	GSPIA
Political Science	MA, PhD	FAS
Prosthodontics	MDS	Dental Medicine
Psychology	MS, PhD	FAS
Psychology in Education	MA, MEd, PhD	Education
Public and International Affairs	PhD	GSPIA
Public and Nonprofit Management	MPA	GSPIA
Public Policy and Management	MPPM	GSPIA
Radiation Health	Certificate	GSPH
Rehabilitation Engineering	Certificate	Engineering
Rehabilitation Science	PhD	SHRS
Rehabilitation Technology	Certificate	SHRS
Religion (Cooperative Program in the study of)	PhD	FAS
Religious Studies	MA	FAS
Rhetoric and Communication	MA, PhD	FAS
Russian Studies	Certificate	UCIS
Security and Intelligence Studies	MPIA	GSPIA
Slavic Languages & Literatures	MA, PhD	FAS
Social Work	MSW, PhD	Social Work
Sociology	MA, PhD	FAS
Soviet Studies	Certificate	UCIS
Statistics	MA, MS, PhD	FAS
Studies of Law	MSL	Law
Teaching English to Speakers of Other Languages	Certificate	FAS
Telecommunications	Certificate, MST	SIS
Theater Arts	MA, MFA, PhD	FAS
Urban and Regional Affairs	MPA	GSPIA
West European Studies	Certificate	UCIS
Women's Studies	Certificate	FAS

¹ Acronyms for academic centers are as follows:

FAS = Faculty of Arts and Sciences

GSPH = Graduate School of Public Health

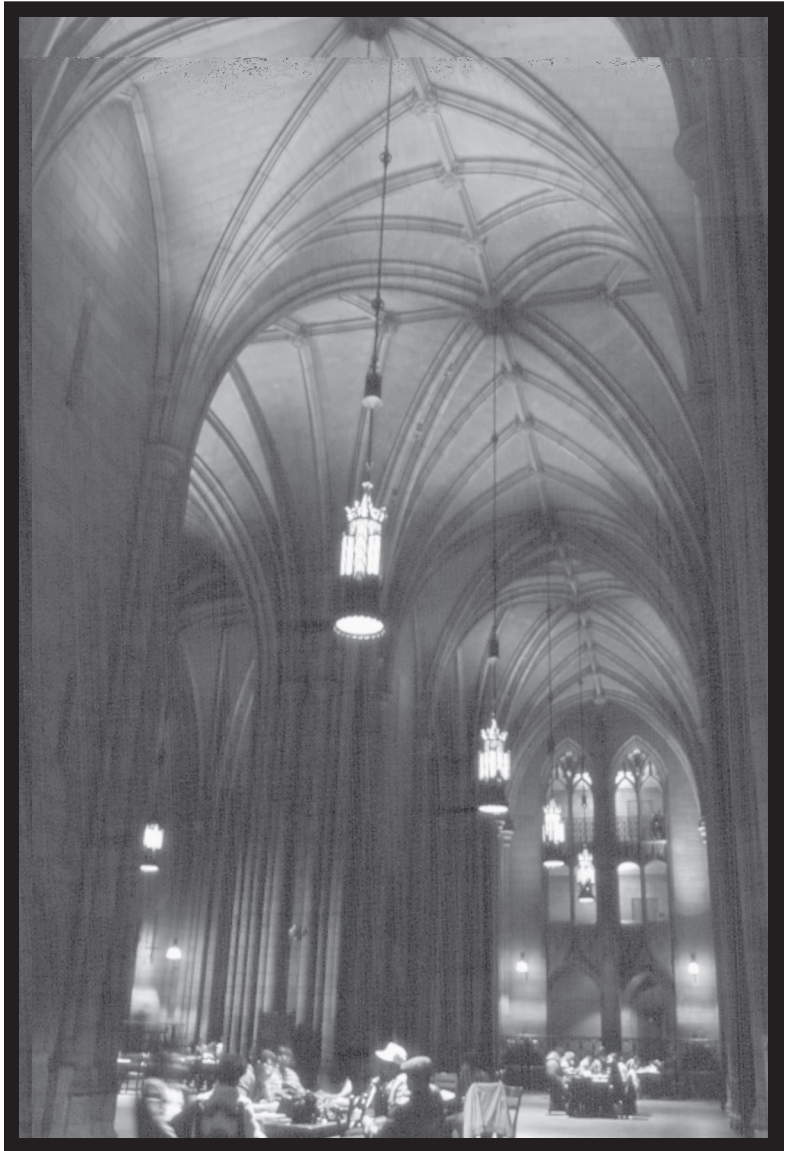
GSPIA = Graduate School of Public and International Affairs

SHRS = School of Health and Rehabilitation Sciences

SIS = School of Information Sciences

UCIS = University Center for International Studies

UNIVERSITY OF PITTSBURGH



GRADUATE PROGRAMS

SCHOOL OF PHARMACY — GRADUATE (PhD/MS) PROGRAM

Founded in 1878, the **School of Pharmacy** is the oldest of the University's schools of the health professions. Since its inception, the **School of Pharmacy** has been at the forefront of changes in pharmacy education. Students who enroll in the school's graduate program may earn a Master of Science (MS) or Doctor of Philosophy (PhD) degree. The graduate program provides education and training in the design and implementation of basic and clinical studies related to the discovery, development, and clinical use of drugs. Students who have earned a professional pharmacy degree and wish to pursue a career in clinical research may enroll in an intensive clinical scientist track. Graduates of our graduate program currently hold positions in industry, education and government.

The **School of Pharmacy** also offers a Doctor of Pharmacy (PharmD) degree, a six-year professional program configured in a course of study requiring two years (62 credits) of pre-professional courses taken during the freshman and sophomore years followed by four years in the **School of Pharmacy's** professional program. *For further information, see the description of the PharmD program beginning on page 429 in the First-Professional Programs section of this bulletin.*

The school's mission is to be a nationally recognized leader of the profession of pharmacy by virtue of the excellence of the School's educational, research, and pharmaceutical care programs.

The University of Pittsburgh **School of Pharmacy** is accredited by the American Council on Pharmaceutical Education, 311 West Superior Street, Suite 512, Chicago, IL 60610, (312) 664-3575, (800) 533-3606 (Fax, (312) 664-4652), and is a member of the American Association of Colleges of Pharmacy.

CONTACT INFORMATION

School of Pharmacy
Office of the Dean
1104 Salk Hall
3501 Terrace Street
Pittsburgh, PA 15261
Phone: (412) 648-8579
Fax: (412) 648-1086
E-mail: rxschool+@pitt.edu
Web site: <http://www.pharmacy.pitt.edu>

ADMISSIONS

Applications for admission to the graduate program should be received by January 31 for Fall Term admission. Applicants must possess a BS degree or its equivalent from an accredited college or university and a minimum undergraduate quality point average of 3.00 on a 4.00 scale (B average). Those students applying for the clinical scientist track should have earned a BS degree in Pharmacy, a PharmD degree, or an equivalent degree in another health-related discipline. All applicants must take the Graduate Records Examination (GRE), and foreign students must take Test of English as a Foreign Language (TOEFL). Further instructions are provided with the application forms.

Downloadable application forms are available on the **School of Pharmacy** Web site, <http://www.pharmacy.pitt.edu/>. The application

forms are files with PDF extensions that are readable using Adobe Acrobat software. All students are required to complete the general application. Foreign students must also complete the Supplemental Application.

Applicants must include an application fee of \$40 with their completed application. Checks should be made payable to the University of Pittsburgh.

FINANCIAL ASSISTANCE

There are a limited number of teaching assistantships and graduate research assistantships that are awarded on a competitive basis to students offered admission to the program. These awards offer full tuition and a stipend. Additional positions may be available if faculty have grant funding for graduate students. *For additional information on financial aid options, see Financial Aid section beginning on page 7.*

ACADEMIC STANDARDS

School of Pharmacy students are responsible for upholding the standards of behavior outlined in the University's Guidelines on Academic Integrity (online at <http://www.pitt.edu/~graduate/ail.html>), the University's policy on sexual harassment, and other policies related to student behavior.

Each year, students will be asked to sign a copy of the University of Pittsburgh **School of Pharmacy** Code of Conduct that reaffirms their commitment to ethical and professional behavior. Details of the Code are outlined on the school's Web site (<http://www.pharmacy.pitt.edu/>).

DEGREE OPTIONS

The **School of Pharmacy** offers both the Master of Science (MS) and the Doctor of Philosophy (PhD) degrees in Pharmaceutical Sciences for highly motivated, qualified individuals seeking a career in the pharmaceutical sciences.

SPECIAL ACADEMIC OPPORTUNITIES

The **School of Pharmacy** is home to two major research centers that provide unique opportunities to graduate students. These are the Center for Education on Drug Abuse Research (CEDAR) (<http://www.pitt.edu/~cedar/>) and the Center for Pharmacogenetics (<http://www.pharmacy.pitt.edu/research/pharmgen/>). Collaborative projects between faculty members doing basic and clinical research provide students with even broader training and education. An intensive clinical scientist track is also available for students who have earned a professional pharmacy degree and wish to pursue a career in clinical research.

PROGRAM DESCRIPTIONS

The graduate program is designed to provide a stimulating environment for students with a wide variety of backgrounds to receive education and training in the design and implementation of basic and clinical studies relating to the discovery, development, and clinical use of pharmaceutical agents. The program consists of a sequence of required

core courses, elective courses, faculty-directed research rotations, and an original research project leading either to a final thesis for MS students or to a dissertation for those pursuing the PhD. Opportunities for interdisciplinary research in the areas of drug delivery, gene therapy, outcomes research, and basic and clinical neuroscience are also available.

MASTER OF SCIENCE IN PHARMACEUTICAL SCIENCES

Students are required to complete a minimum of 30 credit hours, including six credits of work on a master's thesis, to meet the requirements for the Master of Science (MS) degree. The specific plan of study is developed by the student and faculty advisor. The required courses are listed below:

PHARM 2001	Pharmaceutical Analysis	3 cr.
PHARM 2004	Drug Metabolism	2 cr.
PHARM 3008	Advances in Pharmaceutical Sciences+	3 cr.
PHARM 3024	Pharmaceutical Sciences Seminar*	1 cr.
PHARM 3025	Pharmaceutical Sciences Seminar*	1 cr.
PHARM 3028	Pharmacology and Therapeutics	5 cr.
PHARM 3063	Graduate Research in Pharmaceutical Sci.	3 cr.

+one credit course taken three times (three terms at one credit each)

* MS students are required to present a seminar during two terms. PHARM 3024 and 3025 fulfill this requirement (two terms at one credit each).

Students are also required to complete an additional six credits of specialty elective courses and a master's thesis to complete the degree requirements:

	Specialty/Elective Courses	6 cr.
PHARM 2010	Master of Science Thesis	6 cr.
TOTAL CREDITS		30 cr.

PHD IN PHARMACEUTICAL SCIENCES

Students must complete a total of 72 credit hours to fulfill the requirements for the PhD degree. Required courses for all PhD students are listed below. Students who have had prior course work or extensive experience in a given area may be exempted from the required course at the discretion of the faculty. The remaining credit requirements are completed through elective courses and dissertation research. The specific plan of study is developed by the student and their faculty advisor and committee. Courses should be selected to assure an adequate breadth of knowledge as well as depth in the student's focus area.

Two tracks of study are available — the Basic Pharmaceutical Scientist Track and the Clinical Pharmaceutical Scientist Track. Applicants to the Clinical Track must have earned a U.S. pharmacy practice degree (BS in pharmacy or PharmD) before entering the program.

CURRICULUM FOR PHD IN PHARMACEUTICAL SCIENCES

Students enrolled in the school's graduate program are required to complete a core curriculum, regardless of their area of focus. The required courses are listed below (subject to change):

PHARM 2001	Pharmaceutical Analysis	3 cr.
PHARM 2004	Drug Metabolism	2 cr.
BIOST 2041	Introduction to Statistical Methods 1	2 cr.
BIOST 2042	Introduction to Statistical Methods 2	2 cr.
PHARM 3024	Pharmaceutical Sciences Seminar*	3 cr.
PHARM 3025	Pharmaceutical Sciences Seminar*	
PHARM 3028	Pharmacology and Therapeutics	5 cr.
PHARM 3063	Graduate Research in the Pharm. Sciences	3 cr.
TOTAL CORE CURRICULUM CREDITS		20 cr.

* Either PHARM 3024 or 3025 must be taken for credit in each of the three terms during which the student presents a seminar (three terms at one credit each).

In addition, students are required to participate in a journal club course (Advances in Pharmaceutical Sciences or Topics in Biopharmaceutics/Pharmacokinetics) and complete a research dissertation:

PHARM 3008	Advances in Pharmaceutical Sciences+	3 cr.
PHARM 3009	Advances in Pharmaceutical Sciences+	
OR		
PHARM 3026	Topics in Biopharmaceutics/ Pharmacokinetics+	3 cr.
PHARM 3027	Topics in Biopharmaceutics/ Pharmacokinetics+	

+one credit courses taken three times (three terms at one credit each)

AND

PHARM 3010	PhD Dissertation Research	Variable credit
------------	---------------------------	-----------------

COMPREHENSIVE EXAM AND DISSERTATION

Each student follows a program of study developed in conjunction with the major advisor with input from the student's doctoral committee. The program of study must contain all of the program core courses as well as elective courses specific to the student's focus area.

Following completion of course work, students are required to complete a comprehensive examination. To be eligible for the comprehensive examination, students must be in full graduate status and have completed didactic course work with a minimum quality point average (QPA) of 3.00. To qualify for advancement to candidacy for the Doctor of Philosophy degree the student must pass the comprehensive examination.

Admission to PhD candidacy constitutes a promotion of the student to the most advanced stage of graduate study and provides formal approval to devote essentially exclusive attention to research and writing of the dissertation.

Each PhD student must write a dissertation that presents the results of research carried out by the student. An appropriate research project involves a substantive piece of original and independent research grounded in an appropriate body of literature. It is relevant to an identifiable field as it is currently practiced. It represents a hypothesis tested by collection and analysis of data and, provides a significant contribution or advancement to that field.

See Regulations Pertaining to Doctoral Degrees beginning on page 23 for a full overview of regulations and procedures for PhD candidates.

PROGRAM COURSE LISTINGS

PHARM	2001	Pharmaceutical Analysis
PHARM	2002	Concepts in Pharmacology
PHARM	2003	Introduction to Pharmacoepidemiology
PHARM	2004	Drug Metabolism
PHARM	2007	Special Topics in Drug Research
PHARM	3000	Topics in Neuroscience
PHARM	3001	Advanced Pharmaceutics
PHARM	3002	Advanced Pharmacokinetics
PHARM	3003	Ionic Equilibria
PHARM	3004	In Vivo Experimental Techniques
PHARM	3005	Advanced Pharmaceutical Analysis
PHARM	3006	Transfer Operations
PHARM	3007	Structure Property Relationships
PHARM	3008	Advanced Drug Delivery and Targeting
PHARM	3009	Advances in Pharmaceutical Sciences
PHARM	3018	Clinical Pharmacokinetics

PHARM	3019	Experimental Design in Clinical Research
PHARM	3024,	
	3025	Pharmaceutical Sciences Seminar
PHARM	3026	Pharmaceutical Literature Reviews
PHARM	3028	Pharmacology and Therapeutics
PHARM	3031	Phytochemistry and Chemotaxonomy
PHARM	3033	Amino Acid and Peptide Chemistry
PHARM	3035	Molecular Basis for Toxicity
PHARM	3037	Biosynthesis of Natural Constituents
PHARM	3061	Special Topics in the Pharmaceutical Sciences
PHARM	3063	Graduate Research in the Pharmaceutical Sciences
PHARM	3065	Experimental Design

SCHOOL OF PHARMACY FACULTY

The School of Pharmacy's faculty is listed under the school's entry in the First-Professional Programs section of this bulletin, beginning on page 433.