

Graduate School Bulletin

From the Dean of the Graduate School

Welcome!

Marquette University offers a broad array of outstanding graduate educational opportunities, including doctoral degrees, master's degrees and certificate programs. Graduate-level programs contribute to the vibrant intellectual community found at Marquette. Each of the programs described in this section of the bulletin has been designed to provide you with the educational experience in classroom, laboratory and clinical settings that will help you meet your professional and personal goals.

Marquette's graduate programs provide you with the opportunity to study with superb faculty who are strongly committed to their roles as teachers and as scholars. A spirit of exploration, discovery and innovation unites the work of our faculty and graduate students, whether they are probing the fundamental questions in their specific disciplines or applying new knowledge, often through novel interdisciplinary approaches, to solve some of the most challenging problems of our time. This vibrant community of scholars is informed by the mission of Marquette University. Graduate programs, while unique in emphasis and based on discipline-specific information and methods, are conducted in such a manner that students understand and appreciate the Jesuit/Catholic linking of faith, justice and search for truth. Further, Marquette's graduate programs emphasize a worldview informed by multicultural and global perspectives. Finally, students are encouraged to engage in service to their communities and to commit to the ethical practice of their profession.

In addition to the individual graduate programs, the Graduate School offers a wide range of academic support and professional development services. Among these are the Graduate Student Organization and the Preparing Future Faculty and Professionals program. These organizations provide graduate students with the opportunity to interact with colleagues from across campus and offer extracurricular social and professional development opportunities. More information about Graduate School programs and services is available on the Graduate School website (<http://www.marquette.edu/grad>).

I invite you to explore the details of our graduate programs through the links found here. The staff of the Graduate School and the faculty in the individual programs welcome your interest in Marquette University!

Douglas W. Woods, Ph.D.
Vice Provost for Graduate and Professional Studies
Dean of the Graduate School

Mission Statement

Informed by our Jesuit, Catholic heritage, the mission of the Marquette University Graduate School is to recruit, support, and educate students to be highly innovative, competent, and ethical researchers, scholars and professionals who are committed to the service of others.

How to Use

The Graduate Bulletin contains information regarding the academic calendar, admissions, degree requirements, fees, regulations and course offerings. Prospective and current graduate students are responsible for all information contained in this bulletin that is pertinent to graduate study and their specific field. Academic policy and course changes apply to all students as of the date they become effective, regardless of whether they were in effect at the time the student initially enrolled at Marquette. A graduate student may follow the program requirements of the bulletin that are in effect at the time he/she submits an application, or any other bulletin used during their enrollment as long as the student's program has not been discontinued in the bulletin year the student decides to follow. That is, students may not continue in programs that have been discontinued, unless they maintain continuous enrollment from the time of admission and follow the degree requirements in effect during one of the bulletin years in which the program was active. Students must abide by only one bulletin's degree requirements. If any exceptions to this policy are required due to length of time between submitting an application and beginning the program, the student is notified in writing of the applicable bulletin to follow. In order to properly audit a student's academic record for graduation, the student must notify the Graduate School in writing if any bulletin other than the one in effect at the time of application is to be used.

Graduate School students must assume full responsibility for knowledge of the rules and regulations of the Graduate School and the special requirements of their individual degree programs. It is the responsibility of each graduate student to verify and meet the deadlines listed in the Academic Calendar (http://www.marquette.edu/mucentral/registrar/cal_acadcal1415grad.shtml) (e.g., for submitting forms, submitting theses or dissertations).

Changes to the Graduate Bulletin

Marquette University reserves the right to make changes of any nature in its programs, calendar, or academic schedule whenever in its sole judgement it is deemed necessary or desirable. The decision of Marquette University as to the interpretation and method of implementation of its rules, regulations, program requirements, schedules and calendars shall be conclusive and final.

Location

The Graduate School office is located in Holthusen Hall, 305, 1324 W. Wisconsin Avenue, Milwaukee, WI 53233. Office hours are 8 a.m. to 4:30 p.m. with the exception of national or university holidays when the office is closed. Mail should be sent to Marquette University Graduate School, P.O. Box 1881, Milwaukee, WI 53201-1881. The Graduate School's telephone number is (414) 288-7137, the fax number is (414) 288-1902, the email address is mugs@marquette.edu, and the website is <http://www.marquette.edu/grad/>.

Degrees Offered

* No formal specialization offered.

| Program | Degree | Specializations | Program Administered By: |
|---|-------------|---|---|
| Applied Statistics (APST) | M.S. | * | Mathematics, Statistics and Computer Science |
| Bioinformatics (BIIN) | M.S. | * | Mathematics, Statistics and Computer Science / Medical College of Wisconsin |
| Biological Sciences (BSCI) | M.S., Ph.D. | Biochemistry (BCHM), Cell Biology (CEBI), Developmental Biology (DEBI), Ecology (ECOL), Genetics (GENE), Microbiology (MICR), Molecular Biology (MOBI), Neurophysiology (NPHY), Physiology (PHYS) | Biological Sciences |
| Biomedical Engineering (BIEN) | M.S., Ph.D. | Bioinstrumentation/Computers (BICO), Biomechanics/Biomaterials (BIOM), Rehabilitation Bioengineering (REBI), Systems Physiology (SYPH) | Biomedical Engineering |
| Biomedical Engineering (BIEN) | M.E. | Biocomputing (BIOC), Bioimaging (BIIM), Bioinstrumentation (BIOI), Biomechanics (BIOM), Biorehabilitation (BIRE) | Biomedical Engineering |
| Biomedical Engineering (BIEN) | Ph.D. | Bioengineering (BIOE), Functional Imaging (FUIM) | Biomedical Engineering / Medical College of Wisconsin |
| Chemistry (CHEM) | M.S., Ph.D. | Analytical Chemistry (ANCH), Bioanalytical Chemistry (BIAN), Biophysical Chemistry (BIPH), Chemical Physics (CHPH), Inorganic Chemistry (INCH), Organic Chemistry (ORCH), Physical Chemistry (PHCH) | Chemistry |
| Christian Doctrine (MACD) | M.A.C.D. | * | Theology |
| Civil Engineering (CIEN) | M.S., Ph.D. | Construction Engineering (CNEN), Environmental and Water Resources Engineering (ENWR), Structural Engineering and Structural Mechanics (SESM), Transportation Engineering and Materials (TEMA) | Civil and Environmental Engineering |
| Clinical Mental Health Counseling (CMHC) | M.S. | Addiction Counseling (ADCO), Child and Adolescent Counseling (CACO), Clinical Rehabilitation Counseling (CRCO) | Counselor Education and Counseling Psychology |
| Clinical and Translational Rehabilitation Health Science (CTRH) | M.S., Ph.D. | * | Health Sciences |
| Communication (COMM) | M.A. | Communication and Media Studies (COMS), Digital Communication Strategies (DGCS) | Communication |
| Communication (COMM) | Certificate | Digital Storytelling (DIST) | Communication |
| Computational Sciences (CMPS) | M.S., Ph.D. | * | Mathematics, Statistics and Computer Science |
| Computing (COMP) | M.S. | Big Data and Data Analytics (BDDAO), Computing Career Change Opportunity (CCCOO), Information Assurance and Cyber Defense (IACDO) | Mathematics, Statistics and Computer Science |
| Counseling Psychology (COPS) | Ph.D. | * | Counselor Education and Counseling Psychology |
| Data Science (DTSC) | Certificate | * | Graduate School |
| Dentistry-Dental Biomaterials (DBIMA) | M.S. | * | Dentistry |
| Dentistry-Endodontics (DENDO) | M.S. | * | Dentistry |

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| Dentistry-Orthodontics (DORTH) | M.S. | * | Dentistry |
| Dentistry-Periodontics (DPERI) | M.S. | * | Dentistry |
| Dentistry-Prosthodontics (DPROS) | M.S. | * | Dentistry |
| Educational Policy and Leadership (EDPL) | M.A. | Educational Policy and Foundations (EDPF) | Educational Policy and Leadership |
| Educational Policy and Leadership (EDPL) | M.Ed. | Educational Administration (EDAD), Elementary Education (ELED), Elementary Education-Teach for America (ELTA), Secondary Education (SEED), Secondary Education-Teach for America (SETA), Student Affairs in Higher Education (SAHE) | Educational Policy and Leadership |
| Educational Policy and Leadership (EDPL) | Ph.D. | * | Educational Policy and Leadership |
| Educational Policy and Leadership (EDPL) | Certificate | Director of Instruction (DIIN), Elementary Education (ELED), Principal (PRIN), Secondary Education (SEED), Superintendent (SUPR) | Educational Policy and Leadership |
| Electrical and Computer Engineering (EECE) | M.S., Ph.D. | * | Electrical and Computer Engineering |
| English (ENGL) | M.A. | British, American and other Anglophone Literatures (BRAM) | English |
| English (ENGL) | Ph.D. | American Literature (AMLI), British Literature (BRLI) | English |
| Healthcare Technologies Management (HCTM) | M.S. | * | Biomedical Engineering / Medical College of Wisconsin |
| Health Care Data Analytics (HCDA) | M.S. | Ethically Centered Data Science (ECDS) | Graduate School |
| History (HIST) | M.A. | European History (EURO), United States History (USHI), Global Studies (GLST) | History |
| History (HIST) | Ph.D. | European History (EURO), United States History (USHI) | History |
| Interdisciplinary Ph.D. (INPR) | Ph.D. | * | Graduate School |
| International Affairs (INAF) | M.A. | * | Political Science |
| Languages, Literatures and Cultures (LLAC) | M.A. | Spanish (SPAN) | Languages, Literatures and Cultures |
| Mathematics, Statistics and Computer Science (MSCS) | M.S. | Mathematics for Secondary School Teachers (MSST) | Mathematics, Statistics and Computer Science |
| Mechanical Engineering (MEEN) | M.S., M.E., Ph.D. | Energy Systems (ENSY), Manufacturing and Materials Systems (MMSY), Mechanical Systems (MESY) | Mechanical Engineering |
| Neuroscience (NRSC) | Ph.D. | Behavioral and Cognitive Neuroscience (BHCG), Cellular and Molecular Neuroscience (CLML), Computational, Neurorehabilitation and Neuroimaging Neuroscience (CNNR) | Graduate School |
| Nursing (NURS) | M.S.N. | Advanced Practice Nursing: Adult-Older Adult Primary Care Nurse Practitioner (ADUL), Adult-Older Adult Acute Care Nurse Practitioner (ACCA), Adult-Older Adult Clinical Nurse Specialist (ADCS), Dual Primary Care and Acute Care Pediatric Nurse Practitioner (PEDD), Nurse-Midwifery (MIDW), Pediatric Primary Care Nurse Practitioner (PEDI), Pediatric Acute Care Nurse Practitioner (PEDA); Clinical Nurse Leader (CLNL); Systems Leadership and Healthcare Quality (SLHQ) | Nursing |
| Nursing (NURS) | Post-master's Certificate | Adult-Older Adult Primary Care Nurse Practitioner (ADNP), Adult-Older Adult Acute Care Nurse Practitioner (ACNP), Adult-Older Adult Clinical Nurse Specialist (ADCNS), Family Nurse Practitioner (FANP), Nurse-Midwifery (NUMI), Pediatric Primary Care Nurse Practitioner (PEDI), Pediatric Acute Care Nurse Practitioner (PEDA), Psychiatric Mental Health Nurse Practitioner (PSMH), Systems Leadership and Healthcare Quality (SLHQ) | Nursing |
| Nursing (NURS) | Post-baccalaureate Certificate | Clinical Case Management/Care Coordination (CCMC) | Nursing |

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| Nursing (NURS) | D.N.P. | Advanced Practice Nursing: Adult-Older Adult Primary Care Nurse Practitioner (ADUL), Adult-Older Adult Acute Care Nurse Practitioner (ACCA), Dual Primary Care and Acute Care Pediatric Nurse Practitioner (PEDD), Pediatric Primary Care Nurse Practitioner (PEDI), Pediatric Acute Care Nurse Practitioner (PEDA), Nurse Anesthesia (NRAN); Systems Leadership and Healthcare Quality (SLHQ); Advanced Practice Nursing: Nurse-Midwifery (MIDW - post-Master's D.N.P. only) | Nursing |
| Nursing (NURS) | Ph.D. | * | Nursing |
| Philosophy (PHIL) | M.A. | History of Philosophy (HIPH), Social and Applied Philosophy (SOAP) | Philosophy |
| Philosophy (PHIL) | Ph.D. | Ancient Philosophy (ANPH), British Empiricism/Analytical Philosophy (BREM), Christian Philosophy (CHRI), Early Modern European Philosophy (MOPH), Ethics (ETHI), German Philosophy (GEPH), Medieval Philosophy (MEPH), Phenomenology-Existentialism (PHEN), Philosophy of Religion (PHRE) | Philosophy |
| Political Science (POSC) | M.A. | * | Political Science |
| Psychology (PSYC) | M.S. | Behavior Analysis (BHAN), Clinical Psychology (CLPS - earned only en route to Ph.D.) | Psychology |
| Psychology (PSYC) | Ph.D. | Behavior Analysis (BHAN), Clinical Psychology (CLPS) | Psychology |
| Public Service (PUBS) | M.A.P. | Health Care Administration (HECA), Nonprofit Sector (NPSE) | Political Science |
| Religious Studies (REST) | Ph.D. | Historical Theology (HITH), Judaism and Christianity in Antiquity (JUCA), Systematic Theology (SYTH), Theological Ethics (THET), Theology and Society (THSO) | Theology |
| School Counseling (SCCN) | M.A. | * | Counselor Education and Counseling Psychology |
| Speech-Language Pathology (SPLA) | M.S. | Bilingual English-Spanish (BIES) | Speech Pathology and Audiology |
| Theology (THEO) | M.A. | Historical Theology (HITH), Judaism and Christianity in Antiquity (JUCA), Systematic Theology/Theological Ethics (SYTH) | Theology |
| Transfusion Medicine (TRME) | M.S.T.M. | Business Administration (BUAD), Education (EDUC), Science (SCIE) | Graduate School / BloodCenter of Wisconsin |

Legend of Abbreviations for Graduate Degree Programs:

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|----------|--------------------------------------|----------|---|
| M.A. | Master of Arts | M.S. | Master of Science |
| M.A.C.D. | Master of Arts in Christian Doctrine | M.S.N. | Master of Science in Nursing |
| M.A.P. | Master of Arts in Public Service | M.S.T.M. | Master of Science in Transfusion Medicine |
| M.Ed. | Master of Education | D.N.P. | Doctor of Nursing Practice |
| M.E. | Master of Engineering | Ph.D. | Doctor of Philosophy |

Definitions

Degree Program - An academic program of study leading to a master's, Ph.D. or professional degree. All degree programs require that a minimum number of semester credit hours be earned, as referenced in the official bulletins of the University that are produced each academic year.

Certificate - A post-baccalaureate or post-master program of study offered at the graduate level, in which a specific skill set is demonstrated at the end of the program, usually culminating in a capstone course. The courses in a certificate program may be applied toward a graduate degree program. A minimum of 12 semester credit hours must be earned in a certificate program.

Specialization - An integrated, coherent set of courses that define a limited topic or field of study at the graduate level that is taken within the degree program. A minimum of 12 semester credit hours must be earned in the specialization.

Accelerated Bachelor's-Master's Degree Program - Designed to provide a more efficient means to obtain a master's degree. Allows students to begin accumulating credits toward completion of a master's degree while still enrolled as an undergraduate.

Dual Degree - A formal agreement where two degrees are conferred from two institutions (or colleges/schools within a university). Some courses/credits taken at both institutions/colleges/schools apply to both degrees and two diplomas are produced, one for each degree.

Joint Degree - A formal agreement where one degree is conferred from two institutions (or colleges/schools within a university). Some courses/credits taken at both institutions/colleges/schools apply to the degree and both institutions/college/school are listed on a single diploma.

Accelerated Degree Programs Offered

| Program | Degrees | Program Administered By: |
|---|-------------------|---|
| Biomedical Engineering (BIEN) | B.S.B.E. and M.S. | Biomedical Engineering |
| Chemistry (CHEM) | B.S. and M.S. | Chemistry |
| Civil Engineering (CIEN) | B.S.C.E. and M.S. | Civil, Construction and Environmental Engineering |
| Clinical and Translational Rehabilitation Health Science (CTRH) | B.S. and M.S. | Health Sciences |
| Communication (COMM) | B.A. and M.A. | Communication |
| Computing (COMP) | B.S. and M.S. | Mathematics, Statistics and Computer Science |
| Electrical and Computer Engineering (EECE) | B.S.E.E. and M.S. | Electrical and Computer Engineering |
| History (HIST) | B.A. and M.A. | History |
| International Affairs (INAF) | B.A. and M.A. | Political Science |
| Languages, Literatures and Cultures-Spanish (LLAC) | B.A. and M.A. | Languages, Literatures and Cultures |
| Mechanical Engineering (MEEN) | B.S.M.E. and M.S. | Mechanical Engineering |
| Nursing for Non-Nursing Graduates (NURS) | M.S.N. | Nursing |
| Philosophy (PHIL) | B.A. and M.A. | Philosophy |
| Political Science (POSC) | B.A. and M.A. | Political Science |
| Speech-Language Pathology (SPLA) | B.S. and M.S. | Speech Pathology and Audiology |

Dual Degree Programs Offered

| Program | Degrees | Program Administered By: |
|------------------------------|------------------------------|---|
| Communication (COMM) | M.A. and M.A. (POSC or INAF) | Communication / Political Science |
| International Affairs (INAF) | M.A. and M.A. | Political Science / Communication |
| International Affairs (INAF) | M.A. and M.B.A. | Political Science / Graduate School of Management |
| International Affairs (INAF) | M.A. and J.D. | Political Science / Law |
| Philosophy (PHIL) | M.A. and J.D. | Philosophy / Law |
| Political Science (POSC) | M.A. and M.A. | Political Science / Communication |
| Political Science (POSC) | M.A. and M.B.A. | Political Science / Graduate School of Management |
| Political Science (POSC) | M.A. and J.D. | Political Science / Law |

Joint Degree Programs Offered

| Program | Degree | Specializations | Program Administered By: |
|---|--------|---|---|
| Bioinformatics (BIIN) | M.S. | * | Mathematics, Statistics and Computer Science / Medical College of Wisconsin |
| Biomedical Engineering (BIEN) | Ph.D. | Bioengineering (BIOE), Functional Imaging (FUIM) | Biomedical Engineering / Medical College of Wisconsin |
| Healthcare Technologies Management (HCTM) | M.S. | * | Biomedical Engineering / Medical College of Wisconsin |
| Neuroscience (NRSC) | Ph.D. | Behavioral and Cognitive Neuroscience (BHCG), Specialization in Cellular and Molecular Neuroscience (CLML), Specialization in Computational, Neurorehabilitation and Neuroimaging Neuroscience (CNNR) | Graduate School |

Transfusion Medicine (TRME) M.S.T.M. Business Administration (BUAD), Education (EDUC),
 Science (SCIE) Graduate School /
 BloodCenter of Wisconsin

LEGEND OF ABBREVIATIONS FOR Accelerated, DUAL, AND Joint DEGREE PROGRAMS:

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|----------|---|----------|---|
| B.A. | Bachelor of Arts | M.A. | Master of Arts |
| B.S. | Bachelor of Science | M.B.A. | Master of Business Administration |
| B.S.B.E. | Bachelor of Science in Biomedical Engineering | M.S. | Master of Science |
| B.S.C.E. | Bachelor of Science in Civil Engineering | M.S.N. | Master of Science in Nursing |
| B.S.E.E. | Bachelor of Science in Electrical Engineering | M.S.T.M. | Master of Science in Transfusion Medicine |
| B.S.M.E. | Bachelor of Science in Mechanical Engineering | Ph.D. | Doctor of Philosophy |
| J.D. | Juris Doctor | | |