

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 (<https://bulletin.marquette.edu/grad/academiccalendar/>) (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 Zilber Hall, Suite 205, 1250 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.	*	Mathematical and Statistical Sciences
Bioinformatics (BIIN)	M.S.	*	Computer Science / Mathematical and Statistical Sciences / 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) via Joint BME Dept. with MCW	M.E., M.S.	Bioinstrumentation (BIOI), Biomechanics (BMCH), Biomedical Imaging (BMIM), Cellular and Molecular Engineering (CLME), Computational Biology and Bioinformatics (CBBI), Rehabilitation Bioengineering (RBEN)	Biomedical Engineering
Biomedical Engineering (BIEN) via Joint BME Dept. with MCW	Ph.D., M.D./Ph.D.	Bioinstrumentation (BIOI), Biomechanics (BMCH), Biomedical Imaging (BMIM), Cellular and Molecular Engineering (CLME), Computational Biology and Bioinformatics (CBBI), Rehabilitation Bioengineering (RBEN)	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
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, Construction and Environmental Engineering
Clinical Immersion in Medical Device Design (CIMD) via Joint BME Dept. with MCW	Certificate	*	Biomedical 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
Communication (COMM)	M.A.	Communication and Media Studies (COMS), Digital Communication Strategies (DGCS)	Communication
Computational Mathematical and Statistical Sciences (CMPS)	M.S., Ph.D.	*	Mathematical and Statistical Sciences
Computer and Information Science (CISC)	M.S.	Information Assurance and Cyber Defense (IACY), Computing Career Change Opportunity (CCCHO), Big Data and Data Analytics (BDANO) - Moratorium on Admissions for BDANO	Computer Science
Computer Science (COSC) Note: M.S. is only earned en route to Ph.D.	M.S., Ph.D.	*	Computer Science
Counseling Psychology (COPS)	Ph.D.	*	Counselor Education and Counseling Psychology

Criminal Justice Data Analytics (CJDA)	M.S.	*	Social and Cultural Sciences
Data Science (DTSC)	M.S.	Big Data (BDTA), Machine Learning (MLRN), Statistics and Modeling (STMD)	Computer Science
Data Science (DTSC)	Certificate	*	Computer Science
Dentistry-Dental Biomaterials (DBIMA)	M.S.	*	Dentistry
Dentistry-Endodontics (DENDO)	M.S.	*	Dentistry
Dentistry-Orthodontics (DORTH)	M.S.	*	Dentistry
Dentistry-Periodontics (DPERI)	M.S.	*	Dentistry
Dentistry-Prosthodontics (DPROS)	M.S.	*	Dentistry
Director of Instruction (DIIN)	Certificate	*	Educational Policy and Leadership
Educational Leadership (EDLD)	M.Ed.	*	Educational Policy and Leadership
Educational Policy and Leadership (EDPL)	M.A.	Educational Policy and Foundations (EDPF)	Educational Policy and Leadership
Educational Policy and Leadership (EDPL)	Ph.D.	*	Educational Policy and Leadership
Electrical and Computer Engineering (EECE)	M.S., Ph.D.	*	Electrical and Computer Engineering
Elementary Education (ELED)	Certificate	*	Educational Policy and Leadership
English (ENGL)	M.A.	British, American and other Anglophone Literatures (BRAM)	English
English (ENGL) - Moratorium on Admissions	Ph.D.	American Literature (AMLI), British Literature (BRLI)	English
Environmental Engineering (ENEN)	Certificate	*	Civil, Construction and Environmental Engineering
Essential Skills for Practicing Engineers (ESPE)	Certificate	*	Engineering
Exercise and Rehabilitation Science (EXRS)	M.S., Ph.D.	*	Physical Therapy
Healthcare Technologies Management (HCTM) - Moratorium on Admissions	M.S.	*	Engineering / Medical College of Wisconsin
Health Care Data Analytics (HCDA)	M.S.	*	Nursing
History (HIST)	M.A.	European History (EURO), United States History (USHI), Global Studies (GLST)	History
History (HIST) - Moratorium on Admissions	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
Machine Learning for Engineering Applications (MLRN)	Certificate	*	Electrical and Computer Engineering
Mathematics for Secondary School Teachers (MSST)	M.S.	*	Mathematical and Statistical Sciences
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.	Adult-Gerontology Primary Care Nurse Practitioner (AGPC), Nursing Adult-Gerontology Acute Care Nurse Practitioner (AGAC) - Indianapolis campus only: moratorium on admissions, Health Systems Leadership (HSLD), Nurse Midwifery (MIDW), Dual Primary Care and Acute Care Pediatric Nurse Practitioner (PEDD), Pediatric Primary Care Nurse Practitioner (PEDI), Pediatric Acute Care Nurse Practitioner (PEDA)	
Nursing (NURS)	Post-master's Certificate	Adult-Gerontology Primary Care Nurse Practitioner (AGPC), Nursing Adult-Gerontology Acute Care Nurse Practitioner (AGAC) - Indianapolis campus only: moratorium on admissions, Health Systems Leadership (HSLD), Nurse Midwifery (NUMI), Dual Primary Care and Acute Care Pediatric Nurse Practitioner (PEDD), Pediatric Primary Care Nurse Practitioner (PEDI), Pediatric Acute Care Nurse Practitioner (PEDA)	
Nursing (NURS)	D.N.P.	Adult-Gerontology Primary Care Nurse Practitioner (AGPC), Nursing Adult-Gerontology Acute Care Nurse Practitioner (AGAC), Health Systems Leadership (HSLD), 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), Nurse Midwifery (MIDW) - MIDW is Post-master's D.N.P. only	
Nursing (NURS)	Ph.D.	*	Nursing
Philosophy (PHIL)	M.A.	History of Philosophy (HIPH), Social and Applied Philosophy (SOAP)	Philosophy
Philosophy (PHIL)	Ph.D.	*	Philosophy
Political Science (POSC)	M.A.	*	Political Science
Principal (PRIN)	Certificate	*	Educational Policy and Leadership
Psychology (PSYC) Note: CLPS M.S. is only earned en route to CLPS Ph.D.	M.S.	Behavior Analysis (BHAN), Clinical Psychology (CLPS)	Psychology
Psychology (PSYC)	Ph.D.	Behavior Analysis (BHAN), Clinical Psychology (CLPS)	Psychology
Public Service (PUBS)	M.A.P.	*	Center for Urban Research, Teaching and Outreach
Religious Studies (REST)	Ph.D.	Judaism and Christianity in Antiquity (JUCA), Historical Theology (HITH), Systematic Theology (SYTH), Theological Ethics (THET), Theology and Society (THSO)	Theology
Renewable Energy Technology and Integration (RETI)	Certificate	*	Electrical and Computer Engineering
School Counseling (SCCN)	M.A.	*	Counselor Education and Counseling Psychology
Secondary Education (SEED)	Certificate	*	Educational Policy and Leadership
Speech-Language Pathology (SPLA)	M.S.	Bilingual English-Spanish (BIES)	Speech Pathology and Audiology
Sports and Exercise Analytics (SPRT)	M.S.	*	Physical Therapy
Student Affairs in Higher Education (SAHE)	M.Ed.	*	Educational Policy and Leadership
Superintendent (SUPR)	Certificate	*	Educational Policy and Leadership
Systems Engineering (SYEN)	Certificate	*	Engineering
Teacher Education (TEDU)	M.Ed.	Elementary Education (ELEM); Secondary Education (SECD); Secondary Education - Science, Technology, Engineering and Mathematics (STME)	Educational Policy and Leadership

Teaching Certificate for Nurse Educators (TCNE)	Post-graduate Certificate	*	Nursing
Theology (THEO)	M.A.	Christian Doctrine (CHDO), General Studies (GNRL), Historical Theology (HITH), Judaism and Christianity in Antiquity (JUCA), Systematic Theology/Theological Ethics (SYTH), Theology and Society (THSO)	Theology
Transfusion Medicine (TRME)	M.S.T.M.	Business Administration (BUAD), Education (EDUC), Science (SCIE)	Graduate School / Versiti Blood Center of Wisconsin

Legend of Abbreviations for Graduate Degree Programs:

M.A.	Master of Arts	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.E.	Master of Engineering	D.N.P.	Doctor of Nursing Practice
M.Ed.	Master of Education	Ph.D.	Doctor of Philosophy
M.S.	Master of Science	M.D.	Doctor of Medicine (through MCW only)

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-graduate 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 Degree Program - Designed to provide a more efficient means to obtain a graduate degree or certificate, if an ADP is offered for that particular program. Allows students to begin accumulating credits toward completion of graduate degrees with approved ADPs 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/colleges/schools are listed on a single diploma.

Accelerated Degree Programs Offered

Program	Degrees	Program Administered By:
Applied Statistics (APST)	B.S. and M.S.	Mathematical and Statistical Sciences
Biomedical Engineering (BIEN)	B.B.E. and M.S.	Biomedical Engineering
Chemistry (CHEM)	B.S. and M.S.	Chemistry
Civil Engineering (CIEN)	B.C.E. and M.S.	Civil, Construction and Environmental Engineering
Civil Engineering (CIEN)	B.C.N. and M.S.	Civil, Construction and Environmental Engineering
Communication (COMM)	B.A. and M.A.	Communication
Computing (COMP)	Bachelor's and M.S.	Computer Science
Criminal Justice Data Analytics (CJDA)	Bachelor's and M.S.	Social and Cultural Sciences
Data Science (DTSC)	B.S. and M.S.	Computer Science
Electrical and Computer Engineering (EECE)	B.E.E. and M.S.	Electrical and Computer Engineering
Electrical and Computer Engineering (EECE)	B.S. in Physics and M.S.	Electrical and Computer Engineering
English (ENGL)	B.A. and M.A.	English
Exercise and Rehabilitation Science (EXRS)	B.S. and M.S.	Physical Therapy
Health Care Data Analytics (HCDA)	Bachelor's and M.S.	Nursing
History (HIST)	B.A. and M.A.	History
International Affairs (INAF)	B.A. and M.A.	Political Science

Mechanical Engineering (MEEN)	B.M.E. and M.S.	Mechanical Engineering
Neuroscience (NRSC)	B.S. in Biomedical Sciences and Ph.D.	Graduate School
Philosophy (PHIL)	Bachelor's and M.A.	Philosophy
Political Science (POSC)	B.A. and M.A.	Political Science
Public Service (PUBS)	Bachelor's with Urban Affairs minor and M.A.P.	Public Service
School Counseling (SCCN)	B.S. in Educational Studies and M.A.	Counselor Education and Counseling Psychology
Speech-Language Pathology (SPLA)	B.S. in Speech Pathology and Audiology and M.S.	Speech Pathology and Audiology

Dual Degree Programs Offered *

Program	Degrees	Program Administered By:
Communication (COMM)	M.A. and M.A. in International Affairs or in Political Science	Communication / Political Science
Criminal Justice Data Analytics (CJDA)	M.S. and Certificate in Data Science	Social and Cultural Sciences / Computer Science
Data Science (DTSC)	Certificate and M.S.	Computer Science
Data Science (DTSC)	Certificate and M.S. in Criminal Justice Data Analytics	Computer Science / Social and Cultural Sciences
Data Science (DTSC)	Certificate and M.S. in Health Care Data Analytics	Computer Science / Nursing
Data Science (DTSC)	Certificate and M.S. in Sports and Exercise Analytics	Computer Science / Physical Therapy
Health Care Data Analytics (HCDA)	M.S. and Certificate in Data Science	Nursing / Computer 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
Machine Learning for Engineering Applications (MLRN)	Certificate and M.S. in Supply Chain Management	Electrical and Computer Engineering / Graduate School of Management
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
Sports and Exercise Analytics (SPRT)	M.S. and Certificate in Data Science	Physical Therapy / Computer Science
Systems Engineering (SYEN)	Certificate and M.S. in Supply Chain Management	Engineering / Graduate School of Management

* Students who are dually enrolled in a master of science program and the data science certificate program may enroll in a secondary master's that also accepts the data science certificate and complete the remaining requirements for that degree.

Joint Degree Programs Offered

Program	Degree	Specializations	Program Administered By:
Bioinformatics (BIIN)	M.S.	*	Mathematical and Statistical Sciences / Medical College of Wisconsin
Biomedical Engineering (BIEN)	M.S., M.E., Ph.D.	Bioinstrumentation (BIOI), Biomechanics (BMCH), Biomedical Imaging (BMIM), Cellular and Molecular Engineering (CLME), Computational Biology and Bioinformatics (CBBI), Rehabilitation Bioengineering (RBEN)	Biomedical Engineering / Medical College of Wisconsin
Clinical Immersion in Medical Device Design (CIMD)	Certificate	*	Biomedical Engineering / Medical College of Wisconsin
Corporate Communication (CCOM)	M.A.	*	Communication / Graduate School of Management
Healthcare Technologies Management (HCTM)	M.S.	*	Engineering / Medical College of Wisconsin

Neuroscience (NRSC)	Ph.D.	Behavioral and Cognitive Neuroscience (BHCG), Cellular and Molecular Neuroscience (CLML), Computational, Neurorehabilitation and Neuroimaging Neuroscience (CNNR)	Graduate School
Transfusion Medicine (TRME)	M.S.T.M.	Business Administration (BUAD), Education (EDUC), Science (SCIE)	Graduate School / Versiti Blood Center of Wisconsin

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

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