

Waukesha County Technical College and Marquette University Receive Congressional Award to Benefit Underserved Students in Fields of Nursing and Engineering

Waukesha County Technical College (WCTC) has received a \$700,000 congressional award for the development of a joint curriculum and transfer program with Marquette University for the fields of nursing and engineering to benefit underserved populations.

Underserved populations who may benefit from the grant include members of minority groups, the financially disadvantaged, people with disabilities and those who consider careers in nursing and engineering non-traditional occupations.

Individuals may be underserved for a variety of reasons, including academic setting, home and family situation, financial condition, and cultural/lifestyle obstacles. These challenges often contribute to potential students finding it difficult to realize success. Individuals among underserved populations often find it helpful to study in an educational environment where additional support services are readily available. Both engineering and nursing can be rigorous and competitive academic programs. This program is designed to provide a nurturing environment to assist students to achieve successful outcomes. The new congressional award will help underserved students start their nursing and engineering education at WCTC and seamlessly progress through a bachelors degree program at Marquette University.

For both nursing and engineering, this is not an entirely new concept. An existing agreement between the two institutions allows students to complete their first two years of electrical or mechanical engineering technology or nursing at WCTC and then transfer to Marquette University to complete their bachelors degree. Over 50 engineering-related students have already successfully transferred from WCTC to Marquette University to complete their bachelors degrees in engineering. WCTC will provide overall project management, oversight and award administration of the grant, and Marquette University is a joint applicant via sub-grant agreement. Both WCTC and Marquette University are responsible for achieving the purposes of the congressional award. Successful implementation of the program will, in a large part, be driven by the input of an advisory committee consisting of school administrators, teachers and counselors as well as representatives from business, professional organizations and community groups. Through the contributions of an advisory committee, the program will achieve its goal of helping individuals among underserved populations succeed in the fields of nursing and engineering, and it is anticipated that this program will serve as a model for similar programs across the nation.

Note: This program is financed in part by a grant from the U.S. Department of Education through a two year Congressional award of \$700,000 which represents 100% of the project's cost.

MARQUETTE UNIVERSITY TRANSFER PLANNING GUIDE

WCTC - Waukesha

The heart of every Marquette University academic program consists of the **University Core of Common Studies (UCCS)**. The Core provides students with the knowledge, skills and values that define a Marquette education. All students complete courses in nine knowledge areas as part of their degree. Students in the College of Business Administration complete these UCCS courses within the framework of the college curriculum listed below. The * below indicates courses specific to the UCCS requirements.

The University Core of Common Studies is comprised of the following nine knowledge areas:
 R-Rhetoric, LPA – Literature/Performing Arts, HCS – Histories of Cultures and Societies, MR- Mathematical Reasoning, SN – Science and Nature, HNE – Human Nature and Ethics, ISB – Individual and Social Behavior, T – Theology, DC – Diverse Cultures

Marquette University 2003-04 Bulletin	Waukesha County Technical College 2003-2004
ENGL 001 Rhetoric and Composition I* (R) (3 cr.)	801-195 Written Communication (3 cr.)
ENGL 002 Rhetoric and Composition II* (R) (3 cr.)	None
One Literature elective (LPA)* (3cr.)	Please refer to Marquette website listed above for a list of (LPA)* approved classes.
One History elective (HCS)* (3 cr.)	Please refer to Marquette website listed above for a list of (HCS)* approved classes.
One Math elective (MR)* (3 cr.)	Please refer to Marquette website listed above for a list of (MR)* approved classes.
CHEM 001 General Chemistry (3 cr.)	806-174 General Chemistry (5 cr.)
BISC 007 Biochemistry for Health Profession (3 cr.)	806-111 Introduction to Biochemistry (3 cr.)
BISC 015 Principles of Human Anatomy & Physiology (SN)* (5 cr.)	806-177 Anatomy & Physiology I (4 cr.) 806-178 Anatomy & Physiology II (4 cr.)
BISC 115 Human Microbiology (3 cr.)	806-197 Microbiology (4 cr.)
PSYCH 001 General Psychology (ISB)* (3 cr.)	809-198 Introduction to Psychology (3 cr.)
PSYCH 078 Intro to Life-Span Developmental Psych (3 cr.)	809-148 Developmental Psychology (3 cr.)
SOC 021 The Family (3 cr.)	809-196 Introduction to Sociology (3 cr.)
THEO 001 Introduction to Theology (T)* (3 cr.)	None
THEO elective (T)* (3 cr.)	None
Phil 050 Philosophy of Human Nature (HNE)* (3 cr.)	None
PHIL 104 Theory of Ethics (HNE)* (3 cr.)	None
PHIL 192 Health Care Ethics (3 cr.)	None
General Elective (3 cr.)	801-196 Oral/Interpersonal Communication (3 cr.)

For additional information on Marquette's University Core of Common Studies please visit www.marquette.edu/core/.

MARQUETTE UNIVERSITY COLLEGE: College of Nursing

B.S.N. DEGREE COMPLETION PROGRAM

Marquette University College of Nursing is committed to assist graduates of WCTC's Nursing Associate Degree Program in achieving a Bachelor of Science in Nursing degree. The B.S.N. Degree Completion Program provides individualized academic advising and planning. The curriculum is designed to build on previous educational preparation, maximize transfer credit, facilitate educational mobility and provide flexible schedules. Students must complete the University Core of Common Studies as outlined above. Admission requirements include completion of the Associate Degree in Nursing with at least a 2.5 GPA and a current RN license. Interested persons are encouraged to meet with the R.N. Advisor for an evaluation of their previous coursework and to discuss a proposed plan of study. Call (414) 288-3822 for an appointment and additional information.

B.S.N. DEGREE COMPLETION PROGRAM- LIBERAL ARTS REQUIREMENTS

Liberal Arts requirements and UCCS are outlined above.

B.S.N. DEGREE COMPLETION PROGRAM- NURSING REQUIREMENTS

Required Nursing Courses. All RN – BSN student are required to complete Phase I Nursing Courses	
HEAL 025 Culture and Health	3
NURS 120 Intro to Nursing Research	2
NURS 162 Health Assessment for RN's	3
NURS 173 Professional Issues in Nursing	3
Total Credits	11
Nursing Credits by Advanced Course Validation. Upon completion of Phase I courses, as well as graduation from an associate degree or diploma program accredited by the National League for Nursing Accrediting Commission or Commission on Collegiate Nursing Education and possession of a valid RN license, credits for the following courses will be awarded and placed on the student's transcript.	
NURS 015 Dimensions of Professional Nursing	3
HEAL 045 Normal and Therapeutic Nutrition	3
NURS 055 Foundations of Nursing Practice	3
NURS 100 Pathophysiology 1	3
NURS 105 Pathophysiology 2	3
NURS 110 Pharmacotherapeutics for Nursing Practice	3
NURS 130 Nursing Care of Adults- Theory	3
NURS 131 Nursing Care of Adults- Practicum	3
NURS 138 Childbearing Family Nursing- Theory	2
NURS 139 Childbearing Family Nursing- Practicum	3
NURS 142 Mental Health Nursing- Theory	2
NURS 143 Mental Health Nursing- Practicum	3
NURS 160 Nursing Care of Acutely Ill Adults- Theory	3
NURS 161 Nursing Care of Acutely Ill Adults- Practicum	3
NURS 171 Family Centered Nursing of Children-Theory	2
NURS 172 Family Centered Nursing of Children-Practicum	3
Total Credits	45
Required Nursing Courses Phase II. All RN-BSN students begin Phase II courses after completing Phase I and receiving credit for course validation.	
NURS 178 Nursing of Communities-Theory	2
NURS 179 Nursing of Communities-Practicum	3
NURS 188 Nursing Leadership	3
NURS 191 Professional Nursing Practicum	3
PHIL 192 Health Care Ethics	3
NURS Elective	3
Total Credits	17
Total Credits Required for Graduation	128

In general, this Planning Guide identifies courses that will transfer as equivalent courses Marquette students typically take in their first two years. Courses equivalent to Marquette courses will transfer. At the discretion of the academic dean, other courses may transfer as well. Transferring courses may satisfy core requirements, count toward a major, or count as electives. Transfers may be awarded additional credit through AP or CLEP examinations. Transfer students accepted to Marquette will receive an individual official credit evaluation of their previous credits as an enclosure with their letter of admission.

This is a guide, not a contract. Not all details and regulations are included. This information is subject to change. Changes in either institution's curriculum may invalidate part of this information. The Marquette University Bulletin issued for the academic year in which the student enrolls governs curricular requirements for that student. Courses accepted by one Marquette college or program, are not automatically accepted by another. There is no guarantee that courses that transfer will apply to a specific major. Students with a specific major in mind may consult a Marquette academic adviser about how best to satisfy core requirements according to their intended major.

For additional information on the transfer admission, scholarship, and financial assistance process, contact:
Undergraduate Admissions 1-800-222-6544 www.marquette.edu/undergrad

**TRANSFER CREDIT AGREEMENT
WAUKESHA COUNTY TECHNICAL COLLEGE AND MARQUETTE UNIVERSITY
FOR MECHANICAL ENGINEERING**

MARQUETTE UNIVERSITY COURSE		CREDIT	CORRESPONDING WCTC COURSE		CREDIT	MARQUETTE UNIVERSITY
MATH 080	Calculus 1	4	804-154	Technical Calculus	4	
ENGL 001	Expository Writing 1	3	801-195	Written Communications	3	
MATH 081	Calculus 2	4	804-156	Technical Calculus 2	4	
GEEN 010	Introduction to Engineering Design and Problem Solving	2	606-115	Technical Drafting	4	Stanley V. Jaskolski, Ph.D., P.E. Opus Dean, College of Engineering
GEEN 011	Introduction to Engineering	2				
GEEN 022	Introduction to Graphics for Engineers	2	606-104	CAD Drafting and Design	4	Jon K. Jensen, Ph.D. Associate Dean for Enrollment Management
			606-114	Geometric Dimensioning/Tolerancing	3	
GEEN 023	Introduction to Engineering Computing	2	606-117	Computer Programming for Engineers	3	Robert C. Weber, Ph.D. Associate Professor of Mechanical Engineering
MEEN 143	Manufacturing Engineering	3	606-163	Manufacturing Processes	2	
ISB ELEC	Elective	3	809-199	Psychology of Human Relations	3	
MEEN ELEC	Mechanical Elective	3	606-186	Pro E	3	WAUKESHA COUNTY TECHNICAL COLLEGE
PHYS 003	General Physics 1 w/ Calculus	4	808-161	Physics 1 w/ Calculus	3	
ENME 010	Statics	3	606-121	Technical Statistics	4	
PHYS 004	General Physics 2 w/ Calculus	4	806-162	Physics 2 w/ Calculus	3	Thomas Kapusta, Ed. D. Dean Industrial Occupations
ENME 020	Dynamics	3	606-169	Dynamics	3	
ENME 130	Mechanics of Materials	3	606-123	Solid Mechanics	3	
MEEN 142	Design of Machine Elements	4	606-166	Machine Design Elements	3	Kirby Anderson, MS Associate Dean Construction and Design Technology
			606-125	Machine Design Problems	3	
MEEN 128	Dynamics of Mechanical Systems	3	606-170	Kinematics	3	
TOTAL CREDITS		52	TOTAL CREDITS		58	Phillip J. Valle, MS, MBA Instructor, Mechanical Design

Note: A grade of "C" or better required for courses to transfer.

DATED _____

**TRANSFER CREDIT AGREEMENT
WAUKESHA COUNTY TECHNICAL COLLEGE AND MARQUETTE UNIVERSITY
FOR ELECTRICAL ENGINEERING**

MARQUETTE UNIVERSITY COURSE		CREDIT	CORRESPONDING WCTC COURSE		CREDIT	MARQUETTE UNIVERSITY
EECE 011	Electric Circuits 1	3	662-102	DC Circuit Analysis	4	
EECE 041	Circuits Lab 1	1				
EECE 012	Electric Circuits 2	3	662-104	AC Circuit Analysis	4	Stanley V. Jaskolski, Ph.D., P.E. Opus Dean, College of Engineering
EECE 042	Circuits Lab 2	1				
EECE 010	Electronic Devices & Appl.	3	662-190	Electronic Circuits I	4	Jon K. Jensen, Ph.D. Associate Dean for Enrollment Management
EECE 111	Analog Electronics	4	662-191	Electronic Circuits II	4	
EECE 112	Digital Electronics	4	605-118	Digital Electronics	3	Martin A. Seitz, Ph.D. Professor of Electrical and Computer Engineering
EECE 141	Electrical Instrumentation Lab	2	662-108	Linear Circuit Analysis	2	
EECE 069	Technical Elective	3	605-187	Electronic Data Communications	3	WAUKESHA COUNTY TECHNICAL COLLEGE
EECE 143	Digital Electronics Lab	2	605-182	Microprocessors	3	
EECE 169	Technical Elective	3	605-148	Data Acquisition	3	Thomas Kapusta, Ed. D. Dean Industrial Occupations
GEEN 010	Introduction to Engineering Design and Problem Solving	2	809-131	Critical Thinking	3	
GEEN 011	Introduction to Engineering	1				Ray J. Walter, MBA Associate Dean Electronics Technology
COEN 051	Introduction to Engineering Computing	3	107-005	Intro to Programming with Java	4	
MATH 080	Calculus 1	4	804-154	Technical Calculus I	4	Robert Steker, MSEE Instructor, Electronics Technology
MATH 081	Calculus 2	4	804-156	Technical Calculus II	4	
PHYS 003	General Physics 1 w/ Calculus	4	806-161	Physics 1 w/ Calculus	3	DATED _____
PHYS 004	General Physics 2 w/ Calculus	4	806-162	Physics 2 w/ Calculus	3	
CHEM 001	General Chemistry	4	806-174	Chemistry 1	4	
ENGL 001	Expository Writing 1	3	801-195	Written Communications	3	
ISB Elec	Elective	3	809-196	Intro to Sociology	3	
TOTAL CREDITS		61	TOTAL CREDITS		61	

Note: A grade of "C" or better required for courses to transfer.