

MARQUETTE UNIVERSITY

Opus College of Engineering – Harper College

Marquette’s Core Mission - Creating students who communicate responsibly and ethically; engage the world as moral actors and citizens with purpose; use a broad disciplinary focus to engage and collaborate with diverse others, and act as leaders in discovery to solve global problems.

The structure and content of the Marquette University Core Curriculum (MCC) consists of three tiers of courses. For transfer students, the number of credits required in the MCC will be based on the number of approved transfer credits earned by a student (excludes test credits). The **Foundations courses** are designed to build an intellectual and practical base for students’ subsequent learning both within the Core and throughout their undergraduate studies at Marquette. The foundations of the MCC emphasize key aspects of Jesuit perspective and values (ENGL 1001, PHIL 1001, THEO 1001, ESSV1 and CORE 1929). The multi-disciplinary approach of the **Discovery courses** (4 courses within a selected theme and ESSV2) provides the means for students to understand the wholeness of knowledge and to apply Jesuit foundational principles to complex social issues of our time. Finally, the **Culminating course** (CORE 4929) provides a moment to put the Core learning in action through its experiential component and intentionally incorporates reflection on Core learning and students’ sense of vocation and purpose. In this way, the structure and content reflect models of Jesuit Pedagogy with an emphasis on Context, Experience, Action, Reflection, and Evaluation.

MCC TRANSFER LEVEL: A student’s placement in one of the levels below is based on the number of transferrable credits awarded, excluding test credits (AP/IB). The transfer credit level is adjusted accordingly for all official transcript(s) received and credit awarded up to 30 days after the start of classes in the first term of enrollment. If courses are in progress at the time of student’s initial course registration, the student, in consultation with an academic adviser, should consider the impact courses in progress may have on degree requirements.

New freshmen and transfer students with 0-11 approved credits:	Level 1: If you have 12-23 approved credits:	Level 2: If you have 24-48 approved credits	Level 3: If you have ≥ 49 approved credits	Level 4: AA or AS degree completed
<p>All 30 MCC Credits (including Writing Intensive and ESSV2)</p> <p><input type="checkbox"/> ENGL 1001</p> <p><input type="checkbox"/> ESSV1</p> <p><input type="checkbox"/> PHIL 1001</p> <p><input type="checkbox"/> THEO 1001</p> <p><input type="checkbox"/> CORE 1929</p> <p><input type="checkbox"/> CORE 4929</p> <p>Discovery Tier – 12 credits*</p>	<p>24-27 MCC Credits</p> <p><input type="checkbox"/> ENGL 1001</p> <p><input type="checkbox"/> ESSV1 or ESSV2</p> <p><input type="checkbox"/> PHIL 1001</p> <p><input type="checkbox"/> THEO 1001</p> <p><input type="checkbox"/> CORE 1929</p> <p><input type="checkbox"/> CORE 4929</p> <p>Discovery Tier – 9 credits*</p>	<p>18 MCC Credits</p> <p><input type="checkbox"/> ENGL 1001</p> <p><input type="checkbox"/> ESSV1 or ESSV2</p> <p><input type="checkbox"/> PHIL 1001</p> <p><input type="checkbox"/> THEO 1001</p> <p><input type="checkbox"/> CORE 1929</p> <p><input type="checkbox"/> CORE 4929</p>	<p>12 MCC Credits</p> <p><input type="checkbox"/> PHIL 1001</p> <p><input type="checkbox"/> THEO 1001</p> <p><input type="checkbox"/> CORE 1929</p> <p><input type="checkbox"/> CORE 4929</p>	<p>9 MCC Credits</p> <p><input type="checkbox"/> PHIL 1001</p> <p><input type="checkbox"/> THEO 1001</p> <p><input type="checkbox"/> CORE 4929</p> <p>Note: The CORE 1929 and 4929 courses cannot be fulfilled with transfer or test credits</p>

The **Discovery Tier** required of new freshmen and transfer students with less than 24 transfer credits consists of courses completed within a single Discovery Theme. We do not recommend planning your pre-MU courses around Discovery Tier requirements for the following reasons:

- Depending on your plans at MU, Discovery Tier requirements may be completed through other degree requirements (within a major or minor, through study abroad, etc.)
- After a year of study prior to transferring to MU, you will most likely have at least 24 approved credits and will not be required to complete the Discovery Tier.
- Discovery Themes will vary every few years, making it difficult to plan too far in advance of transferring to MU.

TEST CREDITS: Credits awarded through AP, IB or CLEP examinations may fulfill degree requirements, but DO NOT count towards the transfer level determination. Note: Official test score results must be submitted directly from the testing agency to MU. For information on test credit awards, visit <http://bulletin.marquette.edu/undergrad/admissionprocedures/#placementexamcredit>.

Transfer students accepted to Marquette can view their official “Transfer Credit” evaluation via their CheckMarq account.

Marquette University 2018-19 Bulletin	Harper College 2018-19 Catalog
Foundation Courses (MCC)	
a. ENGL 1001 Foundations in Rhetoric (3cr.) b. PHIL 1001 Foundations in Philosophy (3 cr.) c. THEO 1001 Foundations in Theology (3 cr.) d. CORE 1929 Methods of Inquiry (3 cr.) e. ANTH 1001 Intro Anthropology, EDUC 1220 Psychology of Human Dev, SOCI 1001 Intro to Sociology ESSV 1 (3 cr.)	a. ENG 101 Composition b. PHI 105 Introduction to Philosophy c. No equivalents at Harper d. No equivalents at Harper e. ANT 101 Intro to Anthropology, ECE 102 Child Development, SOC 101 Intro to Sociology

Opus College of Engineering

Marquette University Math Requirements by Major 2018-19 Bulletin	Harper College 2018-19 Catalog
All Engineering Majors	
a. CHEM 1001 General Chemistry 1 (4 cr.) b. MATH 1450 Calculus 1 (4 cr.) c. MATH 1451 Calculus 2 (4 cr.) d. MATH 2450 Calculus 3 (4 cr.) e. PHYS 1003 General Physics with Introductory Calculus 1 (4 cr.) f. PHYS 1004 General Physics with Introductory Calculus 2 (4 cr.)	a. CHM 121 General Chemistry I b. MTH 200 Calculus w/ Analytic Geometry I c. MTH 201 Calculus w/ Analytic Geometry II d. MTH 202 Calculus w/ Analytic Geometry III e. PHY 201 General Physics I: Mechanics f. PHY 202 General Physics II Electricity and Magnetism(both courses are required)
Biocomputing Engineering (BIOC) and Bioelectronics Engineering (BIOE)	
a. BIOL 1001 General Biology 1 (3 cr.) b. BIOL 1002 General Biology 2 (3 cr.) c. CHEM 1002 General Chemistry 2 (4 cr.)	a. BIO 110 Principles of Biology b. BIO 116 Fundamentals of Organismal Biology c. CHM 122 General Chemistry II
Biomechanics Engineering (BIOM)	
a. BIOL 1001 General Biology 1 (3 cr.) b. BIOL 1002 General Biology 2 (3 cr.) c. CHEM 1002 General Chemistry 2 (4 cr.) d. CEEN 2110 Statics (3 cr.) e. MEEN 2120 Dynamics (3 cr.) f. CEEN 2130 Mechanics of materials (3 cr.)	a. BIO 110 Principles of Biology b. BIO 116 Fundamentals of Organismal Biology c. CHM 122 General Chemistry II d. EGR 210 Analytical Mechanics (Statics) e. EGR 211 Analytical Mechanics (Dynamics) f. EGR 212 Mechanics of Solids
Civil (CIEN) and Environmental Engineering (ENEN)	
a. CHEM 1002 General Chemistry 2 (4 cr.) b. CEEN 2110 Statics (3 cr.) c. MEEN 2120 Dynamics (3 cr.) d. CEEN 2130 Mechanics of Materials (3 cr.)	a. CHM 122 General Chemistry II b. EGR 210 Analytical Mechanics (Statics) c. EGR 211 Analytical Mechanics (Dynamics) d. EGR 212 Mechanics of Solids
Construction Engineering (CNEN)	
a. CHEM 1002 General Chemistry 2 (4 cr.) b. CEEN 2110 Statics (3 cr.) c. CEEN 2130 Mechanics of Materials (3 cr.)	a. CHM 122 General Chemistry II b. EGR 210 Analytical Mechanics (Statics) c. EGR 212 Mechanics of Solids
Computer (COEN) and Electrical Engineering (ELEE)	
a. EECE 1610 Introduction to Computer Programming (3 cr.) b. GEEN 1120 Introduction to Engineering Graphics (3 cr.) c. GEEN 1130 Introduction to Engineering Computing (3 cr.)	a. CIS 168 Java Software Development I b. EGR 120 Engineering Graphics I (CAD) c. No equivalents at Harper
Mechanical Engineering (MEEN)	
a. GEEN 1120 Introduction to Engineering Graphics (3 cr.) b. GEEN 1130 Introduction to Engineering Computing (3 cr.) c. CHEM 1002 General Chemistry 2 (4 cr.) d. CEEN 2110 Statics (3 cr.) e. MEEN 2120 Dynamics (3 cr.) f. CEEN 2130 Mechanics of Materials (3 cr.)	a. EGR 120 Engineering Graphics I (CAD) b. No equivalents at Harper c. CHM 122 General Chemistry II d. EGR 210 Analytical Mechanics (Statics) e. EGR 211 Analytical Mechanics (Dynamics) f. EGR 212 Mechanics of Solids