

# **Articulation Agreement**

**(Renewal)**

**Between**

**University of Detroit Mercy**  
Engineering Programs



**And**

**St. Clair County Community College**  
Associate in Engineering



**May 2012**

## **INTRODUCTION**

This Articulation Agreement is entered into by St. Clair County Community College (SC4) and the University of Detroit Mercy (UDM) to facilitate transfer for students who complete an Associate Degree in Engineering at SC4. The agreement enables students to complete their studies for a designated bachelor of engineering degree (including Architectural, Civil, Electrical, or Mechanical) at the University of Detroit Mercy. This agreement shall in no way prevent or inhibit a student from seeking admission to the University of Detroit Mercy under the University's normal standards and processes for transfer students.

## **ADMISSION REQUIREMENTS TO ST. CLAIR COUNTY COMMUNITY COLLEGE**

St. Clair County Community College is an open admissions institution that assesses students wishing to enter this program and places them into courses on the basis of their academic background and/or demonstrated experience in specific courses. Applicants will be required to participate in the St. Clair County Community College assessment program. Further information will be provided at the time of application.

High school students considering an engineering program are urged to pursue a rigorous college preparatory curriculum with emphasis on science, mathematics, and English.

## **ADMISSION REQUIREMENTS TO UNIVERSITY OF DETROIT MERCY**

Admission to a UDM undergraduate engineering program is ensured to students who complete the Engineering (Transfer) program at St. Clair County Community College with at least a 2.50 overall GPA and at least a 2.50 in all math, science, and engineering classes. Students with criteria less than this will be evaluated on a case-by-case basis. Courses with less than a "C" grade (2.0) will not transfer for credit or placement. SC4 students will be given equal consideration with UDM students when applying for acceptance into the engineering programs. SC4 students do not need to complete the entire Engineering (Transfer) program to apply.

## **SEQUENCE OF CLASSES/ADVISING**

*SC4 students are strongly encouraged to contact both SC4 and UDM engineering advisors as early as possible to put together a customized program plan for courses at both SC4 and UDM.* The most common plan for full time students is 2+3; however this could be affected by major, prerequisites needed, and number of credits taken each term. To progress through the program more rapidly, SC4 students are encouraged to consider taking a limited number of sophomore-level engineering classes (if not available at SC4) at UDM while completing the Associate's degree at SC4. Specific courses can be recommended by a UDM advisor.

The St. Clair County Community College and University of Detroit Mercy program is designed so that SC4 transfer students, who take all courses for their major on the attached Transfer Guide (Appendix A), can complete the degree requirements in three years or less at UDM (if attending full time). As part of the advising process, students may be required to take placement tests in English, math, and/or chemistry.

### **TRANSFERABLE CREDITS**

Based on the attached Transfer Guide and noting the different requirements for each engineering discipline, below is the number of **UDM** credits that will transfer from SC4 to fulfill specific requirements in the engineering programs. For all students we will officially transfer up to 63 credits, but in two programs we allow more than this based on SC4 offerings. It is UDM's desire to maintain a strong working relationship with SC4 students and assist them in obtaining an engineering degree in the most efficient way.

Architectural Engineering: 63 credits (56 toward specific requirements)

Civil Engineering: 68 credits (all toward specific requirements)

Electrical Engineering: 63 credits (62 toward specific requirements)

Mechanical Engineering: 70 credits (all toward specific requirements)

### **THE WORK EXPERIENCE COMPONENT**

Graduation requirements for a designated bachelor of engineering degree (Architectural, Civil, Electrical, or Mechanical) from the University of Detroit Mercy include the completion of three cooperative work terms (equivalent to approximately one full year of work experience). Students work individually with a UDM advisor to determine their appropriate start time for the co-op sequence, usually in the summer after the majority of sophomore level courses have been completed. The Engineering Co-op Coordinator/Career Advisor will provide placement services to transfer students after they have been admitted to the University of Detroit Mercy. While students are encouraged to follow the full co-op sequence at UDM, other co-op or appropriate engineering work experience obtained prior to attending UDM can be evaluated for transfer credit.

### **ASSOCIATE DEGREE COMPLETION**

St. Clair County Community College students are strongly encouraged to complete the Associate Degree at SC4 as well as the designated bachelor of engineering degree from the University of Detroit Mercy. In some cases, this may be done with reverse transfer of credit.

**EFFECTIVE DATES:** May 1, 2012 – April 30, 2017. During the fifth year, the Agreement will be reviewed for possible revisions and renewal. If not renewed, SC4 students who

designated this program agreement before its termination will have three additional years to be admitted to the University of Detroit Mercy under the terms of the Agreement. *Note: the Transfer Guide (Appendix A) will be updated annually to reflect new and discontinued classes and programs. This could affect the number of transfer credits accepted even prior to a renewal in April 2017.*

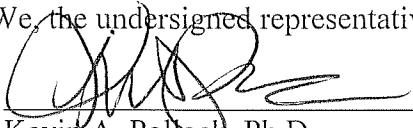
## ARTICULATION AGREEMENT

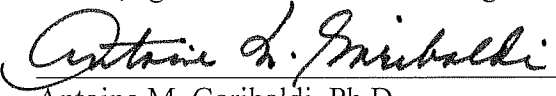
St. Clair County Community College and the University of Detroit Mercy enter into this Agreement to form a partnership consistent with the goals of both institutions to ensure that students are able to complete their education in a timely manner. The purpose of this Agreement is to establish a “seamless” transition between institutions.

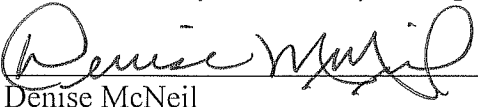
The two institutions agree to the following:


1. Annually update the Transfer Guide based on course changes and other conditions that may affect the nature of this Agreement. Students should always refer to the most recent Transfer Guide, which can be found on UDM’s website. Because course and curricula are regularly modified, every effort will be made to accommodate SC4 students following the most recent Engineering Transfer Guide.
  
2. The engineering advisors at the University of Detroit Mercy and the engineering coordinator at St. Clair County Community College will establish lines of communication to ensure that students planning to transfer to the University of Detroit Mercy receive accurate and timely academic advice.
  
3. To obtain acceptance into the College of Engineering and Science at the University of Detroit Mercy, a student must meet the conditions and considerations specified in this document.
  
4. This entire document will be reviewed in 2017 and every five years thereafter.


We, the undersigned representatives for the institution listed, agree to the terms of this Agreement.


  
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Kevin A. Pollock, Ph.D.  
President  
St. Clair County Community College

  
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Antoine M. Garibaldi, Ph.D.  
President  
University of Detroit Mercy

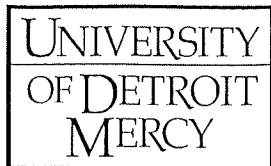
  
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Denise McNeil  
Vice President of Academic Services  
St. Clair County Community College

  
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Pamela Zarkowski, JD, MPH  
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Joseph P. Gibbons  
Math and Science Department Chair  
St. Clair County Community College

  
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Leo E. Hanifin, D.E.  
Dean, College of Engineering and Science  
University of Detroit Mercy

4/30/12  
\_\_\_\_\_  
Date of last signature



**ST. CLAIR COUNTY COMMUNITY COLLEGE**  
**TRANSFER GUIDE**  
**COLLEGE OF ENGINEERING AND SCIENCE**  
**ENGINEERING PROGRAMS**

Entrance Requirements: Minimum 2.5 GPA based on at least 24 credits. If less than 24 credits have been earned, high school transcripts are required. Courses must be a “C” (2.0) or better in order to transfer.

The following courses will transfer into University of Detroit Mercy Engineering programs [Architectural, Civil/Environmental, Electrical/Computer, or Mechanical]. Additional courses not on this guide may also be transferable.

To arrange a campus visit, contact an Admissions Counselor at 313-993-1245, 800-635-5020 or [admissions@udmercy.edu](mailto:admissions@udmercy.edu)

UDM website: [www.udmercy.edu](http://www.udmercy.edu)

**ST CLAIR COUNTY COMMUNITY COLLEGE COURSES**

**Math, Science, Engineering Courses:**

CHM 111	Chem Theory & Princ w/ Analysis
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CIS 264	C++ Programming <sup>2</sup>
EG 180	Engineering Graphics <b>and</b>
PHY 115	Introduction to Engineering
EG 163	SolidWorks-Product Dsgn & Dev <sup>1</sup>
MTH 114	Calculus I
MTH 215	Calculus II
MTH 216	Calculus III
MTH 217	Differential Equations
PHY 221	Mechanics, Heat & Sound
PHY 222	Electricity, Light & Modern Physics
PHY 231	Statics <sup>3</sup>
PHY 232	Introduction to Electric Circuits

Approved Biology/Ecology/Geology class <sup>4</sup>

**Core Curriculum Courses:**

ENG 102	English Composition II
SPC 101	Speech Communication
PHL 210	Introduction to Philosophy
PHL 215	Introduction to Logic
PHL 220	Religions of the World

**UDM EQUIVALENCIES**

CHM 1070/1100	General Chemistry I/Lab
CHM 1080/1120	General Chemistry II/Lab
ENGR 2040 or CSSE1710	Engr Computing or Progrming I
ENGR 1050	Eng Graphics and Design <b>and</b>
ENGR 1000	Ethics & Politics of Engineering
ENGR 1070	Intro to Solid Modeling
MTH 1410	Analytical Geom and Calculus I
MTH 1420	Analytical Geom and Calculus II
MTH 2410	Analytical Geom and Calculus III
MTH 3720	Differential Eq w/ Linear Algebra
PHY 1600/1610	General Physics I/Lab
PHY 1620/1630	General Physics II/Lab
ENGR 3120	Statics
ELEE 2500	Fund of ECE I (EE/Comp Eng) <b>or</b>
ENGR 3200	Prin of Elect Eng (Arch, Civil, Mech)
	Nature Science Requirement

ENL 1310	Academic Writing (OB1)
CST 1010	Fundamentals of Speech (OB1)
PHL 1000	Introduction to Philosophy (OB4A)
PHL 1500	Introduction to Logic (OB4C)
RELS 2---	Religious Studies requirement (OB4B)

<sup>1</sup> Required by Mechanical Engineering program only. There are options in addition to CHEM 112 – consult with a UDM advisor.

<sup>2</sup> Not required by the Architectural Engineering program.

<sup>3</sup> Not required by the Electrical/Computer Engineering programs.

<sup>4</sup> Option for the Civil/Environmental Engineering programs only – consult with UDM advisor.

**Objective 5 (select one to three courses\*):**

Additional courses not listed may also transfer.

HIS 101, 149, 150, 233, 280

Historical Experience courses (OB5A)

PS 101 is transferable only for students completing the Associate in Engineering degree.

ENG 205, 206, 207, 208, 225, 243, 244, 245, 246

Literary Experience courses (OB5B)

ART 120, 121, 122, 123; ENG 255; MUS 106, 230, 231; THA 101, 106, 208

Aesthetic Experience courses (OB5C)

ANT 171; FR 101-204; GEO 233; GR 101-204; HIS 102; PSY 280; SP 101-204

Comparative Experience courses (OB5D)

\* Architectural Engineers select one course from OB5D only. All others select any two courses from OB5A, OB5B, OB5C and one course from OB5D.

**UDM HIGHLIGHTS**

**Great Reputation** – For the eleventh consecutive year, University of Detroit Mercy is listed in the top tier of Midwestern Regional Universities in the 2012 edition of the *U.S. News and World Report's* "America's Best Colleges." UDM is once again ranked one of the top 25 schools in its category and is one of the highest ranking Michigan universities to make the list. Also, UDM's Engineering programs recently celebrated 100 years of education!

**UDM is affordable!** Nearly 80% of UDM students receive financial aid and/or scholarships. Combining co-op income and potential scholarships and financial aid, you may have little out-of-pocket expenses. To determine if you qualify for any of UDM's scholarships (including full tuition grants) established for transfer students, contact the Admissions office at 800-635-5020, 313-993-1245, or [admissions@udmercy.edu](mailto:admissions@udmercy.edu).

**Co-op Leader** – For all engineering students at UDM, co-op integrates real engineering practice with a rigorous on-campus education that includes computing and laboratory intensive components. UDM has one of the few four-year engineering programs in the country where all students obtain one full year of experience prior to graduation. Besides valuable experience, students earn an average of nearly \$30,000 during their three co-op rotations. This provides a significant amount of income for tuition. Through a portfolio process, previous engineering related work experience can be considered for transfer credits. UDM recently celebrated its 100<sup>th</sup> anniversary of Cooperative Education!

**Excellent Faculty** – UDM's small classes are taught by experienced professors (not teaching assistants) who help foster a positive learning environment. Engineering faculty conduct research, receive grant money for lab equipment and curriculum development, work in industry, and win national teaching awards.

**Dual Enrollment** – To ease the transition between SC4 and UDM, it is an option to take one or more engineering courses at UDM while completing courses at SC4. Contact the E&S Transfer Director at [rjmlec@udmercy.edu](mailto:rjmlec@udmercy.edu) for specific classes, which vary by department.

**Campus Activities** – To gain professional, technical, and social connections, we highly encourage participation in at least one of the many Engineering and Science organizations or University clubs.

**Location** - UDM, located in a residential area of Northwest Detroit, is easily accessible from many freeways, including I-94. We invite you to visit!