

# TEMPLE UNIVERSITY

## Program to Program

Associate in Science in Engineering  
to  
Bachelor of Science in Mechanical Engineering



**The information in this booklet is  
meant to be used as a guide.  
The transfer Institution reserves  
the right to make changes at any time.**

Delaware County Community College  
Transfer Office  
2/2022

**ADDENDUM TO THE  
ARTICULATION AGREEMENT  
between  
DELAWARE COUNTY COMMUNITY COLLEGE  
and  
TEMPLE UNIVERSITY OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION  
for  
ASSOCIATE in SCIENCE in ENGINEERING  
to  
BACHELOR of SCIENCE in MECHANICAL ENGINEERING  
at  
TEMPLE UNIVERSITY COLLEGE OF ENGINEERING  
(Effective Spring 2022)**

This addendum concerns changes to the program-to-program Transfer agreement between Delaware County Community College Associate in Science in Engineering degree and Temple University College of Engineering Bachelor of Science in Mechanical Engineering degree signed Fall 2018.

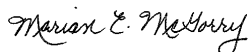
After signing of that agreement, the College of Engineering at Temple University revised their Bachelor of Science in Mechanical Engineering curriculum with the following changes:

- ENG 112: English Composition II: Writing About Literature course equivalency changed. ENG 112 transfers to Temple as ENG 2001: Interpreting Literature.
- MAT 161: Calculus II course equivalency changed. MAT 161 transfers to Temple as MATH 1042: Calculus II. A DARS exception for MATH 1042: Calculus II for students who successfully completed MAT 260: Calculus III and MAT 261: Differential Equations at DCCC is no longer needed.
- MATH 3041: Differential Equations has been renumbered to MATH 2041: Differential Equations I. MATH 261 from DCCC now transfers to Temple as MATH 2041 and satisfies a major requirement.
- MEE 117: Fundamentals of Mechanical Engineering Design replaces ENGR 1117: Engineering Graphics as a required course. EGR 100: Engineering Graphics at DCCC transfers to Temple as ENGR 1117: Engineering Graphics. ENGR 1117 will satisfy MEE 1117 through a DARS exception.
- MEE 3011: Analysis & Computation of Linear Systems replaces MEE 2011: Linear Systems as a required course. Students are recommended to take MEE 3011: Analysis & Computation of Linear Systems in the 5<sup>th</sup> semester at Temple as indicated on page 4.
- Students are recommended to take ENGR 3201: Material Science of Engineers in the 5<sup>th</sup> semester at Temple instead of the 7<sup>th</sup> semester as indicated on page 4.
- MEE 2305: Measurements & Dynamics Laboratory has been renamed to MEE 2305: Instrumentation & Data Acquisition Lab. Students are recommended to take MEE 2305: Instrumentation & Data Acquisition Lab in the 5<sup>th</sup> semester at Temple as indicated on page 4.
- Students are recommended to take ENGR 3553: Mechanics of Fluids in the 6<sup>th</sup> semester at Temple instead of the 5<sup>th</sup> semester as indicated on page 4.
- Students are recommended to take MEE 3305: Materials Laboratory in the 6<sup>th</sup> semester at Temple instead of the 7<sup>th</sup> semester as indicated on page 4.
- MEE 3506: Fluids and Energy Laboratory has been renamed to MEE 3506: Fluid Mechanics Laboratory. Students are recommended to take MEE 3506: Fluid Mechanics Laboratory in the 6<sup>th</sup> semester at Temple as indicated on page 4.
- MEE 3421: Dynamic Systems is no longer a required course but may be selected as one of the required Technical Electives. Students are recommended to take the Technical Electives in the 6<sup>th</sup> and 8<sup>th</sup> semesters as indicated on page 4.

- MEE 3117: Computer-Aided Mechanical Design replaces ENGR 3117: Computer-Aided Design. Students are recommended to take MEE 3117: Computer-Aided Mechanical Design in the 7<sup>th</sup> semester at Temple instead of the 6<sup>th</sup> semester as indicated on page 4.
- Due to updates in the curriculum noted above students are recommended to take 3 credits of Free Electives in the 6<sup>th</sup> semester at Temple and 15 total semester credits instead of 17 as indicated on page 4.
- Due to updates in the curriculum noted above students will take 17 total semester credits instead of 15 in the 7<sup>th</sup> semester at Temple as indicated on page 4.
- MEE Technical Elective #4 and Lab requirements have been clarified. Students must either take MEE 4422: Mechanical Vibrations and MEE 4405: Vibrations Laboratory or MEE 4571: Advanced Thermodynamics and Combustion and MEE 4506: Energy Conversion Laboratory in the 7<sup>th</sup> semester at Temple as indicated on page 4.
- MEE Technical Elective #3 requirement changed. Students no longer have to select a lab component to fulfill that requirement.
- Students are now required to take a 3-credit Technical Elective in the 8<sup>th</sup> semester at Temple instead of any Free Elective course.

This existing agreement has been updated to reflect these changes.

*The 4-6 pages of the agreement signed in Fall 2018 should be replaced with the following updated pages.*



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Marian McGorry, Ph.D.  
Vice President of Academic Affairs  
Delaware County Community College

Date: 1/14/22



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Michael D. Lawlor, Ph.D.  
Associate Vice Provost for Undergraduate Studies  
Temple University

Date: 2/1/2022

**Associate in Science in Engineering <sup>NOTE 1</sup>**  
**at the Delaware County Community College**  
**to the Bachelor of Science in Mechanical Engineering**  
**at Temple University College of Engineering**  
**(Effective Spring 2022)**

DCCC Recommended Course			Temple University Equivalent	
First Semester		Credits	First Semester	
ENG 100	English Composition I	3	ENG 0802	Analytic Read and Writing
MAT 160	Calculus I	4	MATH 1041	Calculus I
CHE 110	General Chemistry I	4	CHEM 1031/ CHEM 1033	General Chemistry I/ General Chemistry Laboratory I <sup>NOTE 2</sup>
EGR 150	Engineering Topics	1	ENGR 1101	Intro/Engineering & Engineering Technology
DPR 101	Introduction to Computer Science	3	CIS L***	Lower Level Elective <sup>NOTE 3</sup>
Semester Total:		15		
Second Semester			Second Semester	
ENG 112	English Composition II: Writing About Literature	3	ENG 2001	Interpreting Literature
MAT 161	Calculus II	4	MATH 1042	Calculus II
CHE 111	General Chemistry II	4	CHEM 1032/ CHEM 1034	General Chemistry II/ General Chemistry Laboratory II
PHY 131	University Physics I	4	PHYS 1061	Elementary Classical Physics I
Semester Total:		15		
Third Semester			Third Semester	
MAT 260	Calculus III	4	MATH 2043	Calculus III
PHY 132	University Physics II	4	PHYS 1062	Elementary Classical Physics II
Engineering Elective	<b>Recommended: EGR 200: Engineering Statics</b> <sup>NOTE 4</sup>	3	ENGR 2331	Engineering Statics
	Diversity and Social Justice - Social Science Course	3		Dependent upon course selection <sup>NOTE 8</sup>
	Global Understanding - Social Science Elective	3		Dependent upon course selection <sup>NOTE 8</sup>
Semester Total:		17		
Fourth Semester			Fourth Semester	
MAT 261	Differential Equations	3	MATH 2041	Differential Equations I
COMM 100 OR COMM 111	Interpersonal Communication OR Public Speaking	3	CSCD T*** OR CSI 1111	Elective- CSCD OR Public Speaking
Engineering Elective	<b>Recommended: EGR 201: Engineering Dynamics</b> <sup>NOTE 5</sup>	3	ENGR 2332	Engineering Dynamics
Engineering Elective	<b>Recommended: EGR 100: Engineering Graphics</b> <sup>NOTE 6</sup>	3	ENGR 1117	Engineering Graphics
Engineering Elective	<b>Recommended: EGR 220: Engineering Thermodynamics</b> <sup>NOTE 7</sup>	3	ENGR 3571	Class & Stat Thermodynamics
	Humanities Elective	3		Dependent upon course selection <sup>NOTE 8</sup>
Semester Total:		18		
Total Credits Taken:		65		

Notes:

- 1) DCCC graduates who transfer with the A.S. in Engineering satisfy Temple's GenEd requirements by GenEd-to-GenEd transfer. It is recommended that students work with their DCCC advisor to select transfer courses for their Humanities and Social Science electives.
- 2) CHE 110: General Chemistry I transfers to Temple as CHEM 1031: General Chemistry I and CHEM 1033: General Chemistry I Lab. CHE 110 will satisfy CHEM 1035: Chemistry for Engineers a major requirement at Temple through

- a DARS exception.
- 3) DPR 101: Introduction to Computer Science transfers to Temple as CIS Lower Level Elective. DPR 101 will satisfy ENGR 1102: Introduction to Engineering Problem Solving a major requirement at Temple through a DARS exception.
  - 4) It is strongly recommended students select EGR 200: Engineering Statics as an Engineering Elective at DCCC. EGR 200: Engineering Statics transfers to Temple as ENGR 2331 and satisfies a major requirement. Students transferring without this course may require additional time to degree completion.
  - 5) It is strongly recommended students select EGR 201: Engineering Dynamics as an Engineering Elective at DCCC. EGR 201: Engineering Dynamics transfers to Temple as ENGR 2332: Engineering Dynamics and satisfies a major requirement. Students transferring without this course may need additional time to degree completion.
  - 6) It is strongly recommended students select EGR 100: Engineering Graphics as an Engineering Elective at DCCC. EGR 100 transfers to Temple as ENGR 1117: Engineering Graphics. ENGR 1117 will satisfy MEE 1117: Fundamentals of Mechanical Engineering Design through a DARS exception. Students transferring without this course may require additional time to degree completion.
  - 7) It is strongly recommended students select EGR 220: Engineering Thermodynamics as an Engineering Elective at DCCC. EGR 220: Engineering Thermodynamics transfers to Temple as ENGR 3571: Class & Stat Thermodynamics and satisfies a major requirement. Students transferring without this course may require additional time to degree completion.
  - 8) To see how courses might transfer, consult Temple's Transfer Equivalency Tool: <http://http://admissions.temple.edu/transfer-equivalency-tool>. Courses not included in the transfer tool may transfer.

If the suggested classes are successfully completed and an Associate in Science in Engineering degree is awarded at Delaware County Community College, the remaining four semesters for the **Bachelor of Science in Mechanical Engineering** are as follows:

Remaining Requirements at Temple University		
Fifth Semester		Credits
ECE 2112	Electrical Devices Systems I	3
ECE 2113	Electrical Devices Systems I Lab	1
ENGR 2196	Technical Communication [WI]	3
MEE 2305	Instrumentation & Data Acquisition Lab	1
ENGR 2333	Mechanics of Solids	3
MEE 3011	Analysis & Computation of Linear Systems	3
ENGR 3201	Material Science for Engineers	3
Semester Total:		17
Sixth Semester		Credits
MEE 3305	Materials Laboratory	1
MEE 3301	Machine Theory & Design	3
ENGR 4169	Engineering Seminar	1
ENGR 3553	Mechanics of Fluids	3
MEE 3506	Fluid Mechanics Laboratory	1
MEE Elective	Technical Elective #1	3
Free Elective	Dependent upon course selection	3
Semester Total:		15
Seventh Semester		Credits
ENGR 4177	Senior Design Project I for Mechanical Engineering	2
MEE 4572	Heat and Mass Transfer	3
MEE 3117	Computer-Aided Mechanical Design	3
Free Elective	Dependent upon course selection	2
MEE 4422/MEE4405 OR MEE 4571/ MEE 4506	Mechanical Vibrations/ Vibrations Laboratory OR Advanced Thermodynamics and Combustion/ Energy Conversion Laboratory	4
Free Elective	Dependent upon course selection	3
Semester Total:		17
Eighth Semester		Credits
ENGR 4296	Senior Design Project II [WI]	3
ENGR 3001	Engineering Economics	3
MEE Elective	Technical Elective #2	3
MEE Elective	Technical Elective #3	3
Free Elective	Dependent upon course selection	2
Semester Total:		14
Credits transferred as part of the A.S. in Engineering:		65
Remaining B.S. in Mechanical Engineering Requirements to complete at Temple		63
<b>Total Credits Completed to Satisfy the Requirements for the B.S. in Mechanical Engineering:</b>		<b>128</b>

Notes: Students following this plan are under the GenEd-to-GenEd General Education program.

- Students who transfer with an A.S. in Engineering from Delaware County Community College have satisfied the requirements for GenEd-to-GenEd transfer.
- All inquiries about the undergraduate program and application are handled through the Office of Undergraduate Admissions. If you have specific questions about your application or the admission process, please call 215-204-7200.
- All inquiries specific to the Engineering program and requirements should be directed to the College of Engineering, Shawn Fagan, 215-204-8825, [shawn.fagan@temple.edu](mailto:shawn.fagan@temple.edu).
- Temple University requires that all undergraduate degree candidates complete 45 hours of the last 60 hours of the degree or program as matriculated students at Temple University. If a matriculated student previously took Temple courses on a non-matriculated basis, those courses are counted towards this requirement.
- Per Temple's Transfer Policy for [Permission to Complete a Course at Another Institution after Matriculation](#), students who transfer 60 credits or more cannot receive permission to transfer additional course work after matriculation.