

Associate in Science in Engineering Science*
at Montgomery County Community College
to the Bachelor of Science in Electrical Engineering, Computer Engineering Concentration
at Temple University of the Commonwealth System of Higher Education
(Effective Fall 2017)

Montgomery County Community College Recommended Course			Temple University Equivalent	
First Semester		Credits	First Semester	
ENG 101	English Composition I	3	ENG 0802	Analytic Reading and Writing
EGR 111	Engineering Computations	3	CIS 1057	Computer Programming in C
MAT 190	Calculus I	4	MATH 1041	Calculus I
EGR 102	Introduction to Engineering	3	ENGR 1101	Introduction to Engineering & Engineering Technology
PHY 151	Principles of Physics I	4	PHYS 1061	Elementary Classical Physics I
Semester Total:		17		
Second Semester			Second Semester	
ENG 102	English Composition II	3	ENG T***	English Elective
MAT 201	Calculus II	4	MATH 1042	Calculus II
PHY 152	Principles of Physics II	4	PHYS 1062	Elementary Classical Physics II
SPC 120	Public Speaking	3	STRC 1111	Public Speaking
EGR 115	Engineering Graphics	3	ENGR 1117 Note 1	Engineering Graphics
Semester Total:		17		
Third Semester			Third Semester	
MAT 202	Calculus III	4	MATH 2043	Calculus III
CHE 151	Principles of Chemistry I	4	CHEM 1031 Note 2 AND CHEM 1033	General Chemistry I AND General Chemistry Laboratory I
EGR 211	Linear Electrical Systems I Note 3	4	ECE 2312 AND ECE 2313	Electrical Engineering Science I AND Electrical Engineering Science Laboratory I
	Core Goal 10: Dependent upon course selection	2-3	Elective	Dependent upon course selection
Semester Total:		14-15		
Fourth Semester			Fourth Semester	
MAT 223	Differential Equations	4	MATH 3041	Differential Equations
HIS 101	History of Western Civilization I	3	HIST L***	Lower Level Elective
PHI 101	Fundamentals of Ethics	3	PHIL L***	Philosophy Lower Level Elective
EGR 214	Linear Electrical Systems II Note 3	4	ECE 2322 AND ECE 2323	Electrical Engineering Science II AND Electrical Engineering Science II Laboratory
EGR 210	Digital Systems	4	ECE 2612 AND ECE 2613	Digital Circuit Design AND Digital Circuit Design Laboratory

	Semester Total:	18		
	Total Credits Taken	66-67		

Notes:

- 1) Students with transfer credit for ENGR 1117 will be waived from ENGR 1102: Introduction to Engineering via DARS exception.
- 2) CHEM 1031 General Chemistry I at MCCC will satisfy the major requirement for CHEM 1035 Chemistry for Engineers at Temple through DARS exception.
- 3) The combination of EGR 211: Linear Electrical Systems I and EGR 214: Linear Electrical Systems II will satisfy the requirements for Temple’s ECE 2332: Principles of Electric Circuits and ECE 2333: Principles of Electric Circuits Lab via DARS exception, as well as one Engineering Technical Elective.
- 4) To see how your courses might transfer, consult Temple’s Transfer Equivalency Tool: <http://admissions.temple.edu/transfer-equivalency-tool/>

* Students who complete the A. S. in Engineering Science at Montgomery County Community College are included in the Montgomery County Community College-Temple GenEd-to-GenEd Transfer Agreement, and therefore, have satisfied all of the GenEd requirements at Temple. Students should work with their MCCC advisor to select courses to fulfill the MCCC degree requirements. **Students who wish to qualify for the Dual Admissions agreement and a possible scholarship should complete the letter of intent before earning 30 credits at Montgomery County Community College.**

If the suggested classes are successfully completed and an Associate of Science in Engineering Science is awarded by Montgomery County Community College, the remaining four semesters for the **Bachelor of Science in Electrical Engineering, Computer Engineering Concentration** are as follows:

Remaining Requirements at Temple University		
Fifth Semester		Credits
ECE 3512	Signals: Continuous and Discrete	4
ECE 3612	Microprocessor Systems	3
ECE 3613	Microprocessor Systems Laboratory	1
CIS 1166	Mathematical Concepts in Computing I	4
ENGR 2196	Technical Communication	3
	Semester Total:	15
Sixth Semester		
ENGR 2011	Engineering Analysis & Applications	3
ECE 3622	Embedded Systems	3
ECE 3623	Embedded Systems Laboratory	1
ECE 3522	Stochastic Processes in Signals and Systems	3
CIS 1068	Program Design and Abstraction	4
ENGR 4169	Engineering Seminar	1
	Semester Total:	15
Seventh Semester		
ENGR 4176	Senior Design Project I for Electrical Engineers	2
ECE 4512	Digital Communication Systems	3
ECE 4513	Digital Communication Systems Laboratory	1
ECE 4612	Advanced Processor Systems	3
CIS 2168	Data Structures	4
Free Elective	Dependent upon course selection	3
	Semester Total:	16
Eighth Semester		
Free Elective	Dependent upon course selection	3
ENGR 4296	Senior Design Project II [WI]	3
ECE 4532	Data and Computer Communication	3
ENGR Elective OR ECE Elective OR CIS Elective	Engineering Elective OR Electrical Engineering Elective OR Computer and Information Science Elective	4
Free Elective	Dependent upon course selection	2
	Semester Total:	15
<i>Credits transferred as part of the A.S. Engineering Science:</i>		67
<i>Remaining B.S. Electrical Engineering, Computer Engineering Concentration Requirements to complete at Temple:</i>		61
Total # of Credits Completed to Fulfill the Requirements for the B.S. in Electrical Engineering, Computer Engineering Concentration:		128

Notes:

1. 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.

DARS EXCEPTIONS TO BE ENTERED BY TEMPLE ACADEMIC ADVISOR

Undergraduate students and their advisors use the Degree Audit Reporting System to plan and track a student's academic career at Temple. DARS works in concert with our Banner Student information system to show how a student's course work to date, including transferred courses, will fulfill the academic requirements necessary to complete a degree in the major field of study

For the DARS exceptions to be processed, students should bring a copy of their final MCCC transcript to their first advising appointment with their Temple Academic Advisor and indicate that they have been following an agreement. The final transcript must show the degree awarded and a conferral date. Official copy of the final transcript must be sent to the Temple Admissions Office.

- 1) Temple's CHE 1031 satisfies CHEM 1035
- 2) MCCC EGR 211 satisfies ECE 2312 and ECE 2313
- 3) MCCC's EGR 214 satisfies ECE 2332 and ECE 2323
- 4) The combination of MCCC's EGR 211 and EGR 214 will be used to satisfy the requirements for ECE 2332 and ECE 2333 and one Engineering Technology elective

ABBREVIATIONS KEY

- ECE – Electrical Engineering
- ENGR – Engineering
- CIS – Computer and Information Systems
- T*** General Transfer Elective
- L*** Lower Level Elective (1000-1999 level course)

To find the online application:

- Go to temple.edu/undergrad
- Click on "Apply" on the gray bar across the top
- Click on "Transfer Students" on the left hand side (which will take you to an online application)

Inquiries about the undergraduate program and application are handled through the Office of Admissions (Tel: 215-204-7200/Email: askanowl@temple.edu.)

Inquiries about the Bachelor of Science in Electrical Engineering program or specific course requirements can be directed to Shawn Fagan (Director, Undergraduate Studies, College of Engineering; Tel: 215-204-8825/Email: sfagan@temple.edu).