

Associate of Science in Pre-Engineering Note 1, Note 2
 at Luzerne County Community College
 to the Bachelor of Science in Civil Engineering
 at Temple University College of Engineering
 (Effective Fall 2021)

Luzerne County Community College Recommended Courses			Temple University Equivalent	
First Semester			First Semester	
CHE 151	General Chemistry I	4	CHEM 1031/ CHEM 1033	General Chemistry I General Chemistry I Laboratory Note 3
EGR 110	Engineer Graphics	3	ENGR 1117	Engineering Graphics
ENG 101	English Composition	3	ENGL 0802	Analytical Reading & Writing
FYE 101	First Year Experience	1	UNVS 1001	First Year Seminar
MAT 151	Analytic Geometry and Calculus	4	MATH 1041	Calculus I
Semester Total:		15		
Second Semester			Second Semester	
CHE 152	General Chemistry II	4	CHEM 1032/ CHEM 1034	General Chemistry II General Chemistry II Laboratory
	Health and Physical Ed Elective	1		Dependent upon course selection Note 5
MAT 251	Analytic Geometry and Calculus II	4	MATH 1042	Calculus II
PHY 151	Calculus Based Physics I	4	PHYS 1061	Elementary Classical Physics I
SPE 125	Fundamentals of Speech	3	CSI 1111	Public Speaking
Semester Total:		16		
Third Semester			Third Semester	
ECO 151	Principles of Economics (Macro)	3	ECON 1101	Macroeconomic Principles
EGR 220	Statics	3	ENGR 2331	Engineering Statics
ENG 261	Technical Communication	3	ENG 2008	Technical Communication
MAT 252	Analytic Geometry and Calculus III	4	MAT 2043	Calculus III
PHY 152	Calculus Based Physics II	4	PHSY 1062	Elementary Classical Physics II
Semester Total:		17		
Fourth Semester			Fourth Semester	
EGR 225	Electrical Circuits & Devices	4	ECE 2332/ ECE 2333	Principles of Electric Circuits Principles of Electric Circuits Lab Note 4
EGR 245	Thermodynamics	3	ENGR 3571	Class & Stat Thermodynamics
EGR 235	Strengths of Materials	3	ENGR 2333	Mechanics of Solids
	Health and Physical Ed Elective	1		Dependent upon course selection Note 5
MAT 280	Ordinary & Partial Differential Equations	4	MATH 3041	Differential Equations
Semester Total:		15		
Total Credits Taken		63		

Notes:

- 1) Students who transfer with an A.S. in Pre-Engineering from Luzerne County Community College require certification that five (5) social science and/or humanities classes have been completed for students to transfer as GenEd-to-GenEd; students who are not certified as GenEd-to-GenEd will be required to complete Temple's 45+ General Education requirements. If course recommendations at Luzerne County Community College are followed, then students will have the remaining GenEd areas to satisfy for the 45+ General Education program upon transfer to Temple: Intellectual Heritage I: The Good Life or Intellectual Heritage II: The Common Good, Race & Diversity, World Society, and Arts or U.S Society (choose one).
- 2) Students who successfully complete the A.S in Pre-Engineering program at Luzerne County Community College will be waived from ENGR 1101: Introduction to Engineering & Engineering Technology.
- 3) CHE 151: General Chemistry I transfers to Temple as CHEM 1031: General Chemistry I and CHEM 1033: General Chemistry Laboratory I. CHE 151 will satisfy CHEM 1035: Chemistry for Engineers and CHEM 1033: General Chemistry Laboratory I through a DARS exception.
- 4) Luzerne County Community College's EGR 225: Electrical Circuits & Devices fulfills the requirements of both ECE 2332: Principles of Electric Circuits and ECE 2333: Principles of Electric Circuits Lab at Temple. In addition, completion of Luzerne County Community College's EGR 225: Electrical Circuits & Devices will waive Temple University's ENGR 1102: Intro to Engr Problem Solving requirement (students will still be required to complete 128-129 credits for the B.S in Civil Engineering degree). Students transferring without EGR 225 from Luzerne County Community College will need to take ENGR 1102 at Temple.
- 5) For more information on how individual courses transfer to Temple, please refer to the Temple Transfer Tool: <https://admissions.temple.edu/transfer-equivalency-tool>

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

Remaining Requirements at Temple University		
Fifth Semester		Credits
CEE 2011	Civil Engineering Materials	2
ENGR 2332	Engineering Dynamics	3
CEE 3331	Soil Mechanics	3
CEE 3332	Soil Mechanics Laboratory	1
CEE 3411	Structural Analysis	3
CEE 3412	Structural Analysis Laboratory	1
Elective	Science Elective	3-4
		Semester Total:
		16-17
Sixth Semester		
CEE 3048	Probability, Statistics & Stochastic Methods	3
ENGR 3553	Mechanics of Fluids	3
CEE 3441	Steel and Concrete Design	4
ENGR 2196	Technical Communication [WI]	3
ENGR 4169	Engineering Seminar	1
MEE 3506	Fluid Mechanics Laboratory	1
CEE 1105	Surveying	2
		Semester Total:
		17
Seventh Semester		
ENGR 4175	Senior Design Project I for Civil Engineering	2
CEE Elective	Civil Engineering Technical Elective #1	3
CEE 3711	Environmental Engineering	3
CEE 3311	Construction Engineering	3
GenEd	Intellectual Heritage I or II	3
GenEd	U.S. Society or Art <i>Note b</i>	3
		Semester Total:
		17
Eighth Semester		
ENGR 4296	Senior Design Project II [WI]	3
CEE 3211	Transportation Engineering	3
CEE Elective	Civil Engineering Technical Elective #2	3
GenEd	World Society <i>Note b</i>	3
GenEd	Race & Diversity <i>Note b</i>	3
		Semester Total:
		15
		<i>Credits transferred as part of the A.S. Pre-Engineering Technology:</i>
		63
		<i>Remaining B.S. Civil Engineering Requirements to complete at Temple:</i>
		65-66
		Total Credits for the B.S. in Civil Engineering:
		128-129

Notes:

- a) Students who transfer with an A.S. in Pre-Engineering from Luzerne County Community College require certification that five (5) social science and/or humanities classes have been completed for students to transfer as GenEd-to-GenEd; students who are not certified as GenEd-to-GenEd will be required to complete Temple's 45+ General Education requirements. If course recommendations at Luzerne County Community College are followed, then students will have the remaining GenEd areas to satisfy for the 45+ General Education program upon transfer to Temple: Intellectual Heritage I: The Good Life or Intellectual Heritage II: The Common Good, Race & Diversity, World Society, and Arts or U.S. Society (choose one).
- b) Students may complete courses in these General Education areas prior to transferring to Temple. For more information about how selected courses might transfer to Temple University, refer to Temple University's Transfer Equivalency Tool: <https://admissions.temple.edu/apply/transfer-students/transfer-equivalency-tool>
- c) Inquiries specific to the Temple's Civil Engineering program or specific course requirements can be directed to Shawn Fagan, College of Engineering Assistant Dean of Undergraduate Affairs, sfagan@temple.edu.

- d) 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.
- e) 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.