Associate in Science in Engineering
at Northampton Community College
to the Bachelor of Science in Mechanical Engineering
at Temple University College of Engineering
(Effective Fall 2026)

Northampton CC Recommended Course			Temple University Equivalent	
First Semester		***Credits***	***First Semester***	
COLS 101	College Success	1	UNVS ****	UNVS Elective
CHEM 120	General Chemistry I	4	CHEM 1031 AND CHEM 1033	General Chemistry I AND General Chemistry I Laboratory Note 2
COMM 101	Introduction to Communication	3	CSI T***	CSI Transfer Elective
ENGL 101	English I	3	ENG 0802	Analytical Reading & Writing
MATH 180	Calculus I	4	MATH 1041	Calculus I
	Semester Total:	**15**		
Second Semester			***Second Semester***	
CISC 115	Computer Science I	4	CIS 1051	Intro to Problem Solving & Programming in Python Note 3
ENGL 151L	English II	3	ENG L***	English Lower-Level Elective
MATH 181	Calculus II	4	MATH 1042	Calculus II
PHYS 215	Physics for Science and Engineering I	5	PHYS 1061	Elementary Classical Physics I
	Semester Total:	**16**		
Third Semester			***Third Semester***	
MATH 210	Calculus III	4	MATH 2043	Calculus III
PHYS 225	Physics for Science and Engineering II	5	PHYS 1062	Elementary Classical Physics II
ENGG XXX Recommend: ENGG 201	Engineering Elective Recommend: Statics	3-4 3	 ENGR 2331	Dependent upon course selection Note 4 Statics
Technical Elective for Engineering Recommend: CADM 100	Technical Elective for Engineering Recommend: Engineering Graphic Essentials	3-4 3	 ENGR 1117	Dependent upon course selection Note 5 Engineering Graphics
	Semester Total:	**15**		
Fourth Semester			***Fourth Semester***	
MATH 211	Differential Equations	4	MATH 2041	Differential Equations I
ENGG XXX Recommend: ENGG 251	Engineering Elective Recommend Strength of Materials	3-4 3	 ENGR 2333	Dependent upon course selection Note 6 Mechanics of Solids
General Education Elective (AH)	General Education Elective (AH)	3		Dependent upon course selection
General Education Elective (SSHB)	General Education Elective (SSHB)	3		Dependent upon course selection
General Education Elective (SIT)	General Education Elective (SIT)	3		Dependent upon course selection
	Semester Total:	**16**		
	Total Credits Transferred	**62**		

Notes:

1) A grade of C or higher must be obtained in the above listed courses to meet Temple's requirements for transfer credit.
2) CHEM 1031 General Chemistry I will satisfy the major requirement of CHEM 1035 Chemistry for Engineers through DARS exception.
3) CIS 1051 Intro to Problem Solving & Programming in Python will satisfy the major requirement of ENGR 1102 through DARS

exception.

4) It is strongly recommended that students select ENGG 201 Statics as the Engineering Elective. This course transfers to Temple as ENGR 2331 Statics and satisfies a major requirement. Students transferring without this course may require additional time to degree completion.
5) It is strongly recommended that students select CADM 100 Engineering Graphic Essentials as the Technical Elective. This course transfers to Temple as ENGR 1117 Engineering Graphics and satisfies a major requirement. Students transferring without this course may require additional time to degree completion. ENGR 1117 will satisfy the major requirement of MEE 1117 through DARS exception.
6) It is strongly recommended that students select ENGG 251 Strength of Materials as the Engineering Elective. This course transfers to Temple as ENGR 2333 Mechanics of Solids and satisfies a major requirement. Students transferring without this course may require additional time to degree completion.
7) To see how your courses might transfer, consult Temple's Transfer Equivalency Tool: http://admissions.temple.edu/transfer-equivalency-tool/

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

Remaining Requirements at Temple University		
Fifth Semester		***Credits***
ENGR 1101	Intro to Engineering & Engineering Technology	3
ENGR 2332	Engineering Dynamics	3
MEE 2305	Instrumentation and Data Acquisition Lab	1
ECE 2112	Electric Devices & Sys I	3
ECE 2113	Electric Devices & Sys I Lab	1
ENGR 3571	Classical and Statistical Thermodynamics	3
ENGR 2196	Technical Communication	3
	Semester Total:	**17**
Sixth Semester		
MEE 3421	Dynamic Systems	3
MEE 3301	Machine Theory & Design	3
ENGR 3201	Material Science for Engineers	3
MEE 3305	Materials Lab	1
ENGR 3001	Engineering Economics	3
ENGR 3553	Mechanics of Fluids	3
MEE 3506	Fluids Mechanics Lab	1
	Semester Total:	**17**
Seventh Semester		
MEE 4177	Design of Mechanical Systems	3
MEE 4572	Heat & Mass Transfer	3
MEE 4422 OR MEE 4571	Mechanical Vibrations or Advanced Thermodynamics and Combustion Note b	3
MEE 3306	Machine Tools and Procedures Lab	1
MEE XXXX	Technical Elective #1	3
MEE XXXX	Technical Elective #2	3
	Semester Total:	**16**
Eighth Semester		
ENGR 4296	Senior Design Project II	3
MEE XXXX	Technical Elective #3	3
MEE XXXX	Technical Elective #4	3
Elective	Free Elective	3
Elective	Free Elective	3
Elective	Free Elective	1
	Semester Total:	**16**
	Credits transferred from the A.S. in Engineering at Northampton Community College:	**62**
	Remaining credits to complete B.S. in Mechanical Engineering at Temple University:	**66**
	Total Credits Completed to Satisfy the Requirements for the B.S. in Mechanical Engineering:	**128**

Notes:

a) Students under this agreement have satisfied the General Education requirements at Temple.

b) Students can take either MEE 4422 or MEE 4571. MEE 4422 is offered in the fall and MEE 4571 is offered in the spring. If MEE 4571 is taken in the Eighth Semester, a Free Elective must be taken in the Seventh Semester.

c) Temple University requires that all undergraduate degree candidates complete a minimum number of credit hours towards their degree 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.

d) DARS EXCEPTIONS TO BE ENTERED BY TEMPLE ACADEMIC ADVISORS

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 DARS exceptions to be processed, students should bring a copy of their final NCCC 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. An official copy of the final transcript must be sent to the Temple Admissions Office.