

Temple University College of Engineering
Associate in Science in Engineering Science at the Community College of Philadelphia
to the Bachelor of Science in Mechanical Engineering at Temple University
(Effective Fall 2017)

CCP Recommended Courses			Temple University Equivalent	
First Semester		Credits	First Semester	
ENGR 102	Engineering Design and Lab I	4	ENGR 1101	Intro to Engineering
MATH 171	Calculus I	4	MATH 1041	Calculus I
CHEM 121	College Chemistry I	4	CHEM 1031 & CHEM 1033	General Chemistry I & General Chemistry Lab I
ENGL 101	English Composition I	3	ENGL 0802	Analytic Reading & Writing
CIS 103	PC Applications	3	CIS L000	Elective
Semester Total:		18		
Second Semester			Second Semester	
ENGR 202	Engineering Design and Lab II	4	ENGR 1117	Engineering Graphics
PHYS 140	Mechanics, Heat and Sound	5	PHYS 1061	Elem. Classical Phys. I
MATH 172	Calculus II	4	MATH 1042	Calculus II
MATH 270	Linear Algebra	4	MATH 2101	Linear Algebra Note 1
Semester Total:		17		
Summer Session I			Summer Session I	
ENGL 102	English Composition II	3	ENGL T***	English Elective
Semester Total:		3		
Third Semester			Third Semester	
MATH 271	Calculus III	4	MATH 2043	Calculus III
CHEM 122	College Chemistry II	4	CHEM 1032 & CHEM 1034	General Chemistry II & General Chemistry Lab II
ENGR 221	Statics	3	ENGR 2331	Engineering Statics
PHYS 241	Electricity, Magnetism and Light	5	PHYS 1062	Elem. Classical Physics II
Semester Total:		16		
Fourth Semester			Fourth Semester	
	Humanities Elective	3		Dependent on Selection Note 2
	Social Science Elective	3		Dependent on Selection Note 2
MATH 272	Differential Equations	4	MATH 3041	Differential Equations
ENGR 222	Dynamics	3	ENGR 2332	Engineering Dynamics
ENGR 205	Materials Engineering	4	ENGR 3201	Materials Science for Engineers Note 3
Semester Total:		17		
Degree Total		71		

- 1) CCP's MATH 270: Linear Algebra will transfer to Temple as MATH 2101: Linear Algebra. Credit for MATH 2101 will satisfy MEE 2011: Linear Systems, a major requirement, through a DARS exception.
- 2) CCP graduates who transfer with the A.S. in Engineering Science satisfy Temple's GenEd requirements by GenEd-to-GenEd transfer. It is recommended that students work with their CCP advisor to select appropriate courses for their CCP degree requirements. To see how CCP courses might transfer consult Temple's Transfer Equivalency Tool: <http://admissions.temple.edu/transfer-equivalency-tool>
- 3) Students at CCP have the option of taking CSCI 111: Programming and Algorithm Development or ENGR 205: Materials Engineering to satisfy their degree requirement. Students are strongly encouraged to select ENGR 205: Materials Engineering. This course transfers to Temple as ENGR 3201: Materials Science for Engineers and fulfills a major requirement. Student who select selecting CSCI 111: Programming and Algorithm Development will need to complete additional courses at Temple and may need additional semester(s) to complete the degree.

Remaining requirements at Temple University		
<i>Summer Session between 2nd and 3rd year</i>		<i>Credits</i>
ENGR 2333	Mechanics of Solids See Note A	3
MEE 2305	Measurements and Dynamics Lab See Note A	1
Semester Total		4
<i>Fifth Semester</i>		
ECE 2112	Electrical Devices & Systems I	3
ECE 2113	Electrical Devices & Systems I Lab	1
ENGR 3571	Classical & Statistical Thermodynamics	3
MEE 3301	Machine Theory and Design	3
MEE 3305	Materials Laboratory	1
ENGR 2196	Technical Communications	3
Semester Total		14
<i>Sixth Semester</i>		
ENGR 4169	Engineering Seminar	1
ENGR 3117	Computer Aided Design	3
ENGR 3553	Mechanics of Fluids	3
MEE 3506	Fluids and Engineering Laboratory	1
MEE 3421	Dynamics Systems	3
MEE XXXX	Technical Elective #1	3
Semester Total		14
<i>Seventh Semester</i>		
ENGR 4196	Engineering Senior Design I	1
MEE 4572	Heat and Mass Transfer	3
MEE XXXX	Technical Elective #2 and/or lab See Note B	4
ENGR 3001	Engineering Economics	3
Free Elective	Dependent upon course selection	3
Semester Total		14
<i>Eighth Semester</i>		
ENGR 4296	Engineering Senior Design II	3
MEE XXXX	Technical Elective #3 and/or lab See Note B	3
MEE XXXX	Technical Elective #4	3
Free Elective	(dependent upon course selection)	3
Semester Total		12
Total Credit from AS Engineering Science		71
Remaining Temple Requirements		58
Total Credits for BS Degree: (124 min.)		129
Notes		
<p>A. Students transferring with the A.S. in Engineering Science will need to complete ENGR 2333: Mechanics of Solids and MEE 2305: Lab Measurements and Dynamics prior to their first regular semester at Temple to be able to complete the BS in 2 years or 4 full semesters at Temple.</p> <p>B. Students must complete either MEE 4422: Mechanical Vibrations & MEE 4405: Vibrations and Controls Laboratory in the Fall OR MEE 4571: Advanced Thermodynamics and Combustion & MEE 4506: Energy Conversion Laboratory in the Spring as required in the Mechanical Engineering Program. When the choice is made, one credit of free elective replaces the lab in the other term.</p>		

Notes:

1. To find the online application:
 - Go to www.temple.edu/undergrad
 - Click on "Applying" on the gray bar across the top
 - Click on "Transfer Students" on the left hand side - This will take you directly to an online application
2. 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.
3. All inquiries specific to the Engineering program and requirements should be directed to the College of Engineering, Shawn Fagan, 215-204-8825, sfagan@temple.edu.