

Associate in Science in Engineering Science <sup>Note 1</sup>  
at Camden County College  
to the Bachelor of Science in Mechanical Engineering  
at Temple University College of Engineering  
(Effective Fall 2021)

CCC Recommended Course			Temple University Equivalent	
First Semester		Credits	First Semester	
ENG 101	English Composition I	3	ENGL 0802	Analytic Reading & Writing
CAD 101	CAD Engineering Graphics	4	ENGR 1117	Engineering Graphics <sup>Note 2</sup>
CHM 111	Chemistry I - Science	4	CHEM 1031/ CHEM 1033	General Chemistry I/ General Chemistry Laboratory I <sup>Note 3</sup>
MTH 140	Calculus I	4	MATH 1041	Calculus I
PHY 201	Physics III	4	PHYS 1061	Elementary Classical Physics I
<b>Semester Total:</b>		<b>19</b>		
Second Semester			Second Semester	
ENG 102	English Composition II	3	ENGL L***	Lower Level Elective- ENG
CHM 112	Chemistry II - Science	4	CHEM 1032/ CHEM 1034	General Chemistry II / General Chemistry Laboratory II
MTH 150	Calculus II	4	MATH 1042	Calculus II
PHY 202	Physics IV	4	PHYS 1062	Elementary Classical Physics II
EGR 101	Introduction to Engineering	2	ENGR 1101	Introduction to Engineering and Engineering Technology
<b>Semester Total:</b>		<b>17</b>		
Third Semester			Third Semester	
MTH 145	Linear Algebra	4	MATH 2101	Linear Algebra
MTH 210	Calculus III	4	MATH 2043	Calculus III
CSC 121	Structured Programming (C++)	4	CIS 1057	Computer Programming in C <sup>Note 4</sup>
EGR 201	Statics	3	ENGR 2331	Engineering Statics
GenEd Social Science	See CCC's Requirements	3		Dependent upon course selection <sup>Note 6</sup>
<b>Semester Total:</b>		<b>18</b>		
Fourth Semester			Fourth Semester	
MTH 220	Differential Equations	4	MATH 3041	Differential Equations
EGR 211	Engineering Circuit Analysis	3	ECE 2332/ ECE 2333	Principles of Electric Circuits/ Principles of Elective Circuits Lab <sup>Note 5</sup>
EGR 202	Dynamics	3	ENGR 2332	Engineering Dynamics
GenEd Humanities	See CCC's Requirements	3		Dependent upon course selection <sup>Note 6</sup>
GenEd Diversity- Humanities	See CCC's Requirements	3		Dependent upon course selection <sup>Note 6</sup>
<b>Semester Total:</b>		<b>16</b>		
<b>Total Credits Taken</b>		<b>70</b>		

**Notes:**

- 1) Students who transfer with an A.S. in Engineering Science from Camden County 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.
- 2) CAD 101: CAD Engineering Graphics transfers to Temple as ENGR 1117: Introduction to Engineering and Engineering Technology. ENGR 1117 will satisfy MEE 1117: Fundamentals of Mechanical Engineering Design through a DARS exception.
- 3) Camden County College's CHM 111: Chemistry I will transfer to Temple as CHEM 1031 General Chemistry I and will satisfy Temple's College of Engineering requirement of CHEM 1035 Chemistry for Engineers through a DARS exception.
- 4) Camden County College's CSC 121: Structured Programming (C++) transfers to Temple as CIS 1057: Computer Programming in C. CSC 121 will satisfy the College of Engineering's ENGR 1102: Intro to Engineering Problem Solving requirement through a DARS exception.
- 5) Camden County Community College's EGR 211: Engineering Circuit Analysis will transfer to Temple as ECE 2332: Principles of Electric Circuits and ECE 2333: Principles of Electric Circuits Lab. ECE 2332 and ECE 2333 will satisfy the College of Engineering's requirement of ECE 2112: Electrical Devices & Systems I and ECE 2113: Electrical devices & Systems I Lab through DARS exception.
- 6) To see how courses might transfer, consult Temple's Transfer Equivalency Tool <http://admissions.temple.edu/transfer-equivalency-tool>.

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

Remaining Requirements at Temple University		
<b>Fifth Semester</b>		
ENGR 3571	Classical and Statistical Thermodynamics	3
ENGR 2196	Technical Communication [WI]	3
ENGR 3201	Materials Science for Engineers	3
ENGR 2333	Mechanics of Solids	3
MEE 2305	Instrumentation & Data Acquisition Lab	1
MEE 3011	Analysis & Computation of Linear Systems	3
	<b>Semester Total:</b>	<b>16</b>
<b>Sixth Semester</b>		
ENGR 3553	Mechanics of Fluids	3
MEE 3305	Materials Laboratory	1
MEE 3506	Fluid Mechanics Laboratory	1
MEE 3301	Machine Theory and Design	3
MEE Elective	Technical Elective #1	3
Free Elective	Dependent upon course selection	3
ENGR 4169	Engineering Seminar	1
	<b>Semester Total:</b>	<b>15</b>
<b>Seventh Semester</b>		
ENGR 4177	Senior Design Project I for Mechanical Engineers	2
MEE 4572	Heat and Mass Transfer	3
MEE 3117	Computer-Aided Mechanical Design	3
MEE 4422/MEE4405 OR MEE 4571/ MEE 4506	Mechanical Vibrations/ Vibrations Laboratory OR Advanced Thermodynamics and Combustion/ Energy Conversion Laboratory	4
ENGR 3001	Engineering Economics	3
	<b>Semester Total:</b>	<b>15</b>
<b>Eighth Semester</b>		
ENGR 4296	Senior Design Project II [WI]	3
MEE XXXX	Technical Elective #2	3
MEE XXXX	Technical Elective #3	3
Free Elective	Dependent upon course selection	3
	<b>Semester Total:</b>	<b>12</b>
<b>Credits transferred as part of the A.S. in Engineering Science degree at CCC:</b>		<b>70</b>
<b>Remaining B.S. Mechanical Engineering Requirements to complete at Temple:</b>		<b>58</b>
<b>Total Credits Completed to Satisfy the Requirements of the Bachelor of Science in Mechanical Engineering:</b>		<b>128</b>
<b>Notes:</b>		
a.) Students who transfer with an A.S. in Engineering Science from Camden County 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.		
b.) 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.		
c.) All inquiries specific to the Engineering program and requirements should be directed to the College of Engineering, Shawn Fagan, 215-204-8825, <a href="mailto:shawn.fagan@temple.edu">shawn.fagan@temple.edu</a> .		
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 <a href="#">Permission to Complete a Course at Another Institution after Matriculation</a> , students who transfer 60 credits or more cannot receive permission to transfer additional course work after matriculation.		