

**Temple University College of Engineering**  
**Associate in Science in Engineering**  
**at Bucks County Community College**  
**to the Bachelor of Science in Mechanical Engineering<sup>NOTE 1</sup> at Temple University**  
**(Effective Fall 2018)**

<b>(Bucks) Recommended Course</b>			<b>Temple University Equivalent</b>	
<b>First Semester</b>		<b>Credits</b>	<b>First Semester</b>	
MATH 140	Calculus I	4	MATH L****	Mathematics Lower Level Elective <sup>NOTE 2</sup>
ENGR 112	Engineering Design	4	ENGR 1117 & ENGR 1101	Engineering Graphics
CHEM 121	Chemistry I	4	CHEM 1031 & CHEM 1033	General Chemical Science I & General Chemical Science I Laboratory <sup>NOTE 3</sup>
COMP 110	English Composition I	3	ENG 0802	Analytical Reading and Writing
COLL 101	College Success	1	NT	
	<b>Semester Total:</b>	16		
<b>Second Semester</b>			<b>Second Semester</b>	
MATH 141	Calculus II	4	MATH L****	Mathematics Lower Level Elective <sup>NOTE 2</sup>
PHYS 121	Physics I	4	PHYS 1061	Elementary Classical Physics I & Lab
CISC 119	Programming for Engineers and Scientists	4	CIS 1057	Computer Programming in C <sup>NOTE 4</sup>
COMP 111	English Composition II	3	ENG L****	English Lower Level Elective
	<b>Semester Total:</b>	15		
<b>Third Semester</b>			<b>Third Semester</b>	
MATH 242	Calculus III	4	MATH U****	Mathematics Upper Level Elective <sup>NOTE 2</sup>
PHYS 122	Physics II	4	PHYS 1062	Elementary Classical Physics II & Lab
COMM 110	Effective Speaking	3	STRC 1111	Public Speaking
ENGR 222	Statics	3	ENGR 2331	Engineering Statics
MATH 260	Linear Algebra	3	MATH 2101	Linear Algebra <sup>NOTE 5</sup>
	<b>Semester Total:</b>	17		
<b>Fourth Semester</b>			<b>Fourth Semester</b>	
MATH 250	Differential Equations	3	MATH 3041	Differential Equations <sup>NOTE 2</sup>
ENGR 240	Introduction to Circuit Analysis	4	ECE 2332 & ECE 2333	Electric Circuits and Lab <sup>NOTE 6</sup>
Elective	Arts/Humanities Elective	3	Elective	Dependent upon course selection <sup>NOTE 7</sup>
ENGR 223	Dynamics	3	ENGR 2332	Engineering Dynamics
ENGR 224	Strength of Materials	3	ENGR 2333	Mechanics of Solids
	<b>Semester Total:</b>	16		
	<b>Total Credits Taken</b>	64		

**Notes:**

- 1) Students who transfer with the A.S. in Engineering from Bucks County Community College have satisfied the requirements for GenEd-to-GenEd transfer.
- 2) Students who successfully complete MATH 140, MATH 141, MATH 242, and MATH 250 at Bucks will satisfy all Engineering mathematics required courses via DARS exception.
- 3) Credit for CHEM 1041 & 1043 will satisfy the requirement CHEM 1035: Chemistry for Engineers & 1033: Chemistry for Engineers Laboratory DARS exception.
- 4) Credit for CIS 1057: Computer Programming in C will satisfy the major requirement ENGR 1102: Introduction to Engineering Problem Solving via DARS exception.
- 5) Credit for MATH 2101: Linear Algebra will satisfy the major requirement MEE 2011: Linear Systems through DARS exception
- 6) Credit for ECE 2332: Principles of Electric Circuits & 2333: Principles of Electric Circuits laboratory will satisfy the requirement for ECE 2112: Electrical Devices & Systems I & ECE 2113: Electrical Devices & Systems I Laboratory via DARS exception.
- 7) To see how courses might transfer, consult Temple's Transfer Equivalency Tool:  
<http://admissions.temple.edu/transfer-equivalency-tool>. Courses not included in the transfer tool may transfer.

If the suggested classes are successfully completed at Bucks County Community College and an Associate of 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		
<b>Fifth Semester</b>		<b>Credits</b>
ENGR 3571	Classical and Statistical Thermodynamics	3
MEE 2305	Measurements & Dynamics Laboratory	1
ENGR 3553	Mechanics of Fluids	3
MEE 3506	Fluids and Energy Laboratory	1
MEE 3301	Machine Theory and Design	3
ENGR 2196	Technical Communication [WI]	3
Free Elective	Dependent upon course selection	3
<b>Semester Total:</b>		<b>17</b>
<b>Sixth Semester</b>		
MEE 3421	Dynamic Systems	3
ENGR 3117	Computer-Aided Design (CAD)	3
ENGR 3201	Material Science for Engineers	3
MEE 3305	Materials Laboratory	1
ENGR 4169	Engineering Seminar	1
MEE Elective	Technical Elective #1	3
Free Elective	Dependent upon course selection	3
<b>Semester Total:</b>		<b>17</b>
<b>Seventh Semester</b>		
ENGR 4177	Senior Design Project I for Mechanical Engineering	2
MEE 4572	Heat and Mass Transfer	3
ENGR 3001	Engineering Economics	3
MEE Elective	Technical Elective #2 and Lab	4
Free Elective	Dependent upon course selection	3
Free Elective	Dependent upon course selection	1
<b>Semester Total:</b>		<b>16</b>
<b>Eighth Semester</b>		
ENGR 4296	Senior Design Project II	3
MEE Elective	Technical Elective #3	3
MEE Elective	Technical Elective #4	3
Free Elective	Dependent upon course selection	3
Free Elective	Dependent upon course selection	3
<b>Semester Total:</b>		<b>15</b>
<i>Credits transferred as part of the A.S. in Engineering</i>		<b>63</b>
<i>Remaining B.S. Mechanical Engineering Requirements to complete at Temple</i>		<b>65</b>
<b>Total Credits Completed to Satisfy the Requirements for the Bachelor of Science in Mechanical Engineering:</b>		<b>128</b>

**Notes:** Students following this plan are under the GenEd-to-GenEd General Education program.

- a) To find the online application:
  - i. Go to [www.temple.edu/undergrad](http://www.temple.edu/undergrad)
  - ii. Click on "Applying" on the gray bar across the top

- iii. Click on “Transfer Students” on the left hand side - This will take you directly to an online application
- 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, [shawn.fagan@temple.edu](mailto:shawn.fagan@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.