

# Associate in Engineering (P1052C)

## Career and College Promise

**High school students in the Associate in Engineering CCP College Transfer Pathway must complete the entire pathway before taking additional courses in the Associate in Engineering degree with the following exception: Students may take additional math courses beyond MAT 272 that are required for the Associate in Engineering degree.**

To be eligible for enrollment, a high school student must:

1) Be a high school junior or senior	2) Have a weighted GPA of 3.0 in high school courses; and meet the testing requirements for the pathway
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The Associate in Engineering College Transfer Pathway is designed for high school juniors and seniors who wish to begin study toward the Associate in Engineering degree and a baccalaureate degree in a STEM or technical major.

The general education requirement includes study in courses selected from the Universal General Education Transfer Component (UGETC) component of the Comprehensive Articulation Agreement (CAA). A student may take up to 8 credit hours of a foreign language and labs in a single language as designated in the CAA. These language courses are not part of the UGETC. Students who complete the courses with a "C" or higher will receive transfer credit. The receiving university will determine whether the courses will count as general education, pre-major, or elective credit.

**Testing Requirements for the Engineering Transfer Pathway are found at [www.cpcc.edu/hsprogram](http://www.cpcc.edu/hsprogram). Students must demonstrate college readiness in English, Reading, and Math.**

### English Composition *(The following two courses are required / 3 credit hours each)*

ENG 111: Writing and Inquiry	3	
ENG 112: Writing/Research in the Disciplines <i>(Pre-req: ENG 111 with a C or better)</i>	3	

### Humanities, Fine Arts and Communications *(Select any one courses below / 3 credit hours)*

ART 111: Art Appreciation ART 114: Art History Survey I ART 115: Art History Survey II COM 231: Public Speaking ENG 231: American Literature I** ENG 232: American Literature II**	ENG 241: British Literature I** ENG 242: British Literature II** MUS 110: Music Appreciation MUS 112: Introduction to Jazz PHI 215: Philosophical Issues* PHI 240: Introduction to Ethics*	*Pre-req: ENG 111 with a C or better  **Pre-req: ENG 112 with a C or better	3	
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### Social and Behavioral Sciences *(The following course is required / 3 credit hours)*

ECO 251: Principles of Microeconomics	3	
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### Mathematics *(The following two courses are required / 4 credits each)*

*Calculus I is the lowest level math course that will be accepted by the engineering programs for transfer as a math credit. Students who are not calculus-ready will need to take additional math courses.\* (MAT 171/172)  
See [www.cpcc.edu/hsprogram](http://www.cpcc.edu/hsprogram) for direct placement options into MAT 271.*

MAT 271: Calculus I	4	
MAT 272: Calculus II (Pre-req: MAT 271 with a C or higher)	4	

### Natural Sciences *(Select any 2 courses below / 8 credit hours)*

CHM 151: General Chemistry I	4	
PHY 251: General Physics I (Pre-req: MAT 271 with a C or better)	4	
PHY 252: General Physics II (Pre-req: PHY 251 with a C or better and Co-req: MAT 272)		

### Other Required Courses *(The following three courses are required/ 6 credit hours)*

ACA 122: College Transfer Success	1	
EGR 150: Introduction to Engineering	2	
DFT 170: Engineering Graphics (Pre-req: EGR 150 with a C or better)	3	

### Prerequisite General Education Hours *(Two courses / 4 credit hours each)*

*Students who do not place directly into MAT 271 must complete MAT 171 and MAT 172 prior to enrolling in MAT 271 Calculus I.*

MAT 171: Pre-Calculus Algebra	4	
MAT 172: Pre-Calculus Trigonometry	4	

**Total credit hours** **34-50**