

# MECHANICAL ENGINEERING

## *Transfer Guide for Penn State Harrisburg / Mercer County Community College*

Mercer County Community College (MCCC) and Penn State Harrisburg (PSH) have established this transfer guide so that students have a clear idea about the course work that they should complete in order to best transfer into a Bachelor's Degree in Mechanical Engineering at Penn State Harrisburg.

The goal of the Mechanical Engineering program is to provide students with the necessary training and education for them to become technical leaders for various industrial, commercial, consulting, and governmental organizations. Potential work-related duties include development and construction of machines and mechanisms; development, instrumentation, and control of manufacturing processes and procedures; design of mechanical systems for heating and cooling; development of energy management procedures; and renewable energy alternatives. For the B.S. degree in Mechanical Engineering, a minimum of 131 credits is required.

**The Mechanical Engineering program @ PSH is fully accredited by ABET.**

Apply online at <http://admissions.psu.edu/>

### Admission Requirements:

1. Before transferring, MCCC students generally complete most of their first two years of college. A minimum of 18 credits are required to be considered for transfer.
2. Students are also required to have a minimum cumulative grade point average of 2.0 (on a 4.0 scale). *GPA's are recalculated to include all courses and grades, including all repeated courses, from all colleges/universities previously attended.*
3. Students are required to have completed MAT 146 or higher at MCCC or trigonometry or higher from high school.

### Recommendations/Notes:

1. Although not required for transfer, students who graduated from high school in 2001 or later and have not completed the required two high school world language units (same language) must fulfill this high school requirement by completing one semester of a college level world language. This class is considered a high school world language requirement and also counts toward the completion of a baccalaureate degree.
2. The evaluation of all other prior college work is done on an individual basis by the Admissions Office at Penn State Harrisburg. Students should work closely with their academic adviser at MCCC and with Penn State Harrisburg for the most up-to-date information.

<u>PSH COURSES</u>	<u>PSH Credits</u>	<u>MCCC COURSES</u>	<u>MCCC Credits</u>
<b>ENGLISH COMPOSITION</b> ENGL 015 (GWS) ENGL 202C (GWS)	3 3	[ ] ENG 101 (GWS) <b>course must be completed @ PSH</b>	3 -
<b>SPEECH</b> CAS 100 (GWS)	3	[ ] CMN 112 (GWS)	3
<b>QUANTIFICATION (GQ)</b> MATH 140* MATH 141*	4 4	[ ] MAT 151 (GQ) [ ] MAT 152 (GQ)	4 4
<b>NATURAL SCIENCE (GN)</b> PHYS 211 (GN)* PHYS 212 (GN) CHEM 110 & 111 (GN)*	4 4 4	[ ] PHY 115 (GN) [ ] PHY 215 (GN) [ ] CHE 101 (GN)	4 4 4
<b>HUMANITIES (GH)</b>	3 3	[ ] [ ]	3 3
<b>ARTS (GA)</b>	3 3	[ ] [ ]	3 3
<b>SOCIAL SCIENCE (GS)</b> ECON 102 or 104 (GS)	3 3	[ ] ECO 111 or 112 (GS) [ ]	3 3
<b>HEALTH &amp; PHYSICAL ACTIVITY (GHA)</b>	1 1 1	[ ] [ ] [ ]	1 1 1
A detailed description of the complete program is available at <a href="http://php.scripts.psu.edu/dept/uit/hbg/Programs/Undergraduate/CivilEng.php">http://php.scripts.psu.edu/dept/uit/hbg/Programs/Undergraduate/CivilEng.php</a>			

<b>MATRICES:</b> MATH 220	<b>2-3</b>	[ ] MAT 208	<b>4</b>
<b>ENGINEERING GRAPHICS:</b> EDSGN 100	<b>3</b>	[ ] DRA 238	<b>3</b>
<b>STATICS:</b> E MCH 211	<b>3</b>	[ ] CIV 103	<b>3</b>
<b>STRENGTH OF MATERIALS:</b> E MCH 213	<b>3</b>	[ ] CIV 229	<b>4</b>
<b>ADVANCED CALCULUS:</b> MATH 230	<b>4</b>	[ ] MAT 251	<b>4</b>
<b>DIFFERENTIAL EQUATIONS:</b> MATH 251	<b>4</b>	[ ] MAT 252	<b>4</b>

\* **E n t r a n c e - t o - M a j o r r e q u i r e m e n t s**