

CIVIL 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 Civil Engineering at Penn State Harrisburg.

The Civil Engineering program at Penn State Harrisburg is designed to provide the basic undergraduate education required for private and public service in civil engineering, and/or continue formal education. Emphasis is placed on the fundamentals of civil engineering, principles, and design techniques. The program requirements enable students to focus on one of following concentration areas: construction, environmental, general, or structural. Study through these areas may lead to opportunities as structural designers for buildings and infrastructures, project engineers for construction projects, or representatives for owners or contractors. Employers include consulting firms, contractors, industry, and governments. **The Civil Engineering program @ PSH is fully accredited by ABET.**

For the B.S. degree in Civil Engineering, a minimum of 130 credits is required.

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

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 to PSH.
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 cannot be counted towards 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.

Admission Requirements:

<u>PSH COURSES</u>	<u>PSH Credits</u>	<u>MCCC COURSES</u>	<u>MCCC Credits</u>
ENGLISH COMPOSITION ENGL 015 (GWS) ENGL 202C (GWS)	3 3	ENG 101 (GWS) ENG 112(GWS)	3 3
SPEECH CAS 100 (GWS)	3	CMN 112 (GWS)	3
QUANTIFICATION (GQ) MATH 140* MATH 141*	4 4	MAT 151 (GQ) MAT 152 (GQ)	4 4
NATURAL SCIENCE (GN) 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
HUMANITIES (GH)	3 3	 	3 3
ARTS (GA)	3 3	 	3 3
SOCIAL SCIENCE (GS) ECON 102 or 104 (GS)	3 3	ECO 111 or 112 (GS) 	3 3
HEALTH & PHYSICAL ACTIVITY (GHA) Construction concentration students must take CE 254 @ PSII	1 1 1	 	1 1 1

A detailed description of the complete program is available at <http://ohp.scripts.psu.edu/den/it/hbc/Programs/Undergraduate/CivilEng.php>

Entrance-to-Major requirements

MATRICES: MATH 220	2-3	MAT 208	4
DIFFERENTIAL EQUATIONS MATH 251	4	MAT 252	4
ENGINEERING GRAPHICS: EDSGN 100	3	DRA 238	3
STATICS: E MCH 211	3	CIV 103	3
STRENGTH OF MATERIALS: E MCH 213	3	CIV 229	4
COMPUTER PROGRAMMING CMPSC 121 OR 201 OR 202	3	COS 102	4
CHEMISTRY: CHEM 112 & 113 Environmental concentration ONLY	4	CHE 102	4

ELECTRICAL 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 coursework that they should complete in order to best transfer into a Bachelor's Degree in Electrical Engineering at Penn State Harrisburg. For a B.S. degree in Electrical Engineering a minimum of 134 credits is required.

The Bachelor of Science degree in Electrical Engineering is designed to provide a solid background in electrical engineering sciences. It also provides an opportunity for students to pursue interests in electrical and electronic circuits, including digital circuits and VLSI and its fabrication, microprocessors and their applications, electromagnetics, communications, control systems, and digital image processing and computer vision. Through a senior capstone design project, the curriculum emphasizes written as well as verbal communication and a teamwork approach among students to attain a common goal.

The Electrical 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.*
3. Students are required to have completed MAT 146 or higher at MCCC or trigonometry or higher from high school.

Recommendations/Notes:

1. Students are encouraged to complete the MCCC equivalent of the Entrance-to-Major requirements: MATH 140 GQ(4), 141 GQ(4), PHYS 211 GN(4) and CHEM 110 GN(3), 111 GN(1).
2. 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 cannot be counted towards the completion of a baccalaureate degree.
3. The evaluation of all other prior college work is done on an individual basis by the Office of Enrollment Services 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>
ENGLISH COMPOSITION ENGL 015 (GWS) ENGL 202C (GWS)	3 3	ENG 101 ENG 112	3 3
SPEECH CAS 100 (GWS)	3	CMN 112	3
QUANTIFICATION (GQ) * MATH 140 * MATH 141	4 4	MAT 151 MAT 152	4 4
NATURAL SCIENCE (GN) *PHYS 211 (GN) PHYS 212 (GN) *CHEM 110 & 111 (GN)	4 4 4	PHY 115 PHY 215 CHE 101	4 4 4
HUMANITIES (GH)	3 3	 	3 3
ARTS (GA)	3 3	 	3 3
SOCIAL SCIENCE (GS) ECON 102 (GS) or 104 (GS)	3 3	ECO 111 or 112 	3 3
HEALTH & PHYSICAL ACTIVITY (GHA)	1 1 1	 	1 1 1
DIFFERENTIAL EQUATIONS: MATH 250	3	MAT 252	4
MATRICES: MATH 220 (GQ)	2-3	MAT 208	4

ADVANCED CALCULUS: MATH 230	4	MAT 251	4
ENGINEERING GRAPHICS: EDSGN 100	3	DRA 238	3
STATICS: E MCH 211	3	CIV 103	3
COMPUTER PROGRAMMING CMPSC 121 or 201 or 202 (GQ)	3-4	COS 102	4
STATISTICS: STAT 200	4	MAT 201	4
<i>a detailed description of the complete program can be found at http://php.scripts.psu.edu/dept/it/hbg/Programs/Undergraduate/ElectricalEng.php</i>			

* Entrance-to-Major Requirement (ETM)

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 cannot be counted towards 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>
ENGLISH COMPOSITION ENGL 015 (GWS) ENGL 202C (GWS)	3 3	ENG 101 (GWS) ENG 112 (GWS)	3 3
SPEECH CAS 100 (GWS)	3	CMN 112 (GWS)	3
QUANTIFICATION (GQ) MATH 140* MATH 141*	4 4	MAT 151 (GQ) MAT 152 (GQ)	4 4
NATURAL SCIENCE (GN) 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
HUMANITIES (GH)	3 3	 	3 3
ARTS (GA)	3 3	 	3 3
SOCIAL SCIENCE (GS) ECON 102 or 104 (GS)	3 3	ECO 111 or 112 (GS) 	3 3
HEALTH & PHYSICAL ACTIVITY (GHA)	1 1 1	 	1 1 1

A detailed description of the complete program is available at <http://ohp.scripts.psu.edu/dept/it/hbe/Programs/Undergraduate/CivilEng.php>

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

* Entrance-to-Major requirements