

MECHANICAL ENGINEERING

Transfer Guide for Penn State Harrisburg / Harrisburg Area Community College

Harrisburg Area Community College (HACC) and Penn State Harrisburg (PSH) have established this Transfer Guide so that students have a clear idea about the course work that they should take in order to best transfer into a Bachelor's Degree in Mechanical Engineering at Penn State Harrisburg.

HACC students enrolled in the Dual Admission Program can follow the degree requirements in effect at the time of dual admission as long as the student has maintained continuous enrollment at HACC. Information about the Dual Admission Program is available from the Transfer Center at HACC.

Built upon a broad foundation in physics, chemistry, and mathematics, this major has the objective of educating graduates to be problem solvers. Graduates of this program will have had opportunities to learn about applying scientific principles, engineering analysis, and engineering design to solve unstructured problems that are typical of those found in mechanical engineering. The major helps prepare graduates for a lifelong productive career, whether they choose professional practice, graduate school, or some other career path. Graduates will have had opportunities to learn how to work with others toward a common goal, to clearly express their ideas in written and verbal form, and to be independent and capable of adapting to the continuously changing technology of the work environment.

For the B.S. degree in Mechanical Engineering, a minimum of 131 credits is required.

Admission Requirements:

1. Before transferring, HACC 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 MATH 104 at HACC or Trigonometry in 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 foreign language units must fulfill this high school requirement by completing one semester of a college level foreign language. This class is considered a high school foreign language requirement and cannot be counted towards the completion of a baccalaureate degree.
2. Students are strongly advised to complete 3 credits of United States Cultures (US) and 3 credits of International Cultures (IL) within their general education requirements. These courses are listed within the General Education Table below. For this major, only 3 credits of either US or IL are required since an upper division requirement will fulfill either a US or IL equivalent.

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 HACC and with Penn State Harrisburg for the most up-to-date information. **Apply online at <http://admissions.psu.edu/>**

PENN STATE COURSES	PSU Credits	HACC COURSES (Please see the General Education Table below)	HACC Credits
ENGLISH COMPOSITION			
ENGL 015 or 030 (GWS)	3	[] ENGL 101 (GWS)	3
ENGL 202C (GWS)	3	[] ENGL 104 (GWS)	3
SPEECH			
CAS 100 (GWS)	3	[] SPCH 101 (GWS)	3
QUANTIFICATION (GQ)			
MATH 140*	4	[] MATH 121 (GQ)	4
MATH 141*	4	[] MATH 122 (GQ)	4
NATURAL SCIENCE (GN)			
PHYS 211 (GN)*	4	[] PHYS 211 (GN)	4
PHYS 212 (GN)	4	[] PHYS 212 (GN)	4
CHEM 110 & 111 (GN)*	4	[] CHEM 101 (GN)	4
HUMANITIES (GH)		SELECT COURSES FROM GH TABLE	
	3	[] <i>Consider taking a course to satisfy recommendation #2 above</i>	3
	3	[]	3
ARTS (GA)		SELECT COURSES FROM GA TABLE	
	3	[] <i>Consider taking a course to satisfy recommendation #2 above</i>	3
	3	[]	3
SOCIAL SCIENCE (GS)		SELECT COURSES FROM GS TABLE	
ECON 002 or 004 (GS)	3	[] ECON 201 or 202 (GS)	3
	3	[] <i>Consider taking a course to satisfy recommendation #2 above</i>	3
HEALTH & PHYSICAL ACTIVITY (GHA)		SELECT COURSES FROM GHA TABLE	
	1	[]	1
	1	[]	1
	1	[]	1
A detailed description of the complete program is available at http://php.scripts.psu.edu/dept/uit/hbg/Programs/Undergraduate/CivilEng.php			

MATRICES: MATH 220	2-3	[] MATH 220	4
ENGINEERING GRAPHICS: EDSGN 100	3	[] CAD 154	3
STATICS: E MCH 211	3	[] ENGR 213	3
DYNAMICS: E MCH 212	3	[] ENGR 214	3
COMPUTER PROGRAMMING CMPSC 121 or 201 or 202	3	[] CPS 161	3

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

G E N E R A L E D U C A T I O N T A B L E

This check sheet is provided as a transfer guide only. Official transfer of credits is provided by Penn State University. HACC and PSU/HBG work cooperatively in a timely manner to provide this information; however, courses are subject to change. Listed below are the HACC courses that meet the General Education requirements for Penn State Harrisburg majors. This table may not be valid for other Penn State locations and is NOT all-inclusive. Students should consult PSH Admissions when determining transferability of HACC courses not listed on this table.

ARTS (GA) 6 credits (All courses with an asterisk (*) are HACC Core A)					
ART 106	ART 151	ART 183 (IL)	HUM 114 (IL)	MUS 110	*THTR 101
ART 121	ART 161	ART 184	HUM 229	MUS 119	THTR 110
ART 122	ART 171	ART 185	*MUS 102	MUS 120	THTR 111
ART 131	*ART 181 (IL)	ART 187	MUS 103	MUS 201	THTR 145
ART 144	*ART 182 (IL)	*HUM 101	*MUS 104 (IL)	MUS 202	THTR 224 (IL/US)
HUMANITIES (GH) 6 credits (ENGL, HUM, PHIL marked with (*) are HACC Core A; HIST (*) are HACC Core B)					
*ENGL 205 (IL)	ENGL 247 (IL)	*HIST 101 (IL)	HIST 110 (IL)	HIST 205 (IL)	*PHIL 101
*ENGL 206 (IL)	ENGL 265 (IL/US)	*HIST 102 (IL)	HIST 120	HIST 219 (IL)	*PHIL 102
*ENGL 207	ENGL 269(US)	*HIST 103 (US)	HIST 161	HIST 220 (US)	*PHIL 200 (IL/US)
*ENGL 217 (US)	ENGL 278 (IL)	*HIST 104 (US)	*HIST 201 (IL)	HUM 113 (US)	PHIL 215
ENGL 246	ENGL 279(IL)	*HIST 107	*HIST 202 (IL)	*HUM 201	*PHIL 225
NATURAL SCIENCES (GN) 9 credits (All courses with an asterisk (*) are HACC Core C)					
*ASTR 103	*BIOL 103	BIOL 130 (IL/US)	*CHEM 101	*GEOL 101	*PHYS 201
*ASTR 104	*BIOL 108	*BIOL 221	CHEM 102	*GEOL 102	PHYS 202
BIOL 101	*BIOL 111	BIOL 225	*CHEM 113	METR 101	*PHYS 211
BIOL 102	BIOL 121	*CHEM 100	GEOG 101	PHYS 151	PHYS 212
SOCIAL AND BEHAVIORAL SCIENCES (GS) 6 credits (All courses marked with an asterisk (*) are HACC Core B)					
*ANTH 101 (IL/US)	ANTH 215	*ECON 202	GP 208 (IL)	PSYC 212	*SOCI 201
*ANTH 201 (IL/US)	ANTH 220	*GEOG 201 (IL)	*PSYC 101	*PSYC 213	*SOCI 202
*ANTH 205 (IL)	CJ 108	*GEOG 230 (IL/US)	*PSYC 202	PSYC 216	*SOCI 203
ANTH 210 (US)	CJ 211	*GP 201	PSYC 209	*PSYC 221	SOCI 205
ANTH 212 (IL)	*ECON 201	GP 205 (IL)	PSYC 211	PSYC 232	SOCI 211
QUANTIFICATION (GQ) 6 credits (All courses marked with an asterisk (*) are HACC Core C)					
CPS 113	CPS 162	*MATH 110	MATH 114	*MATH 122	MATH 220
CPS 135	*MATH 103	*MATH 111	*MATH 119	MATH 125	MATH 221
CPS 161	*MATH 104	MATH 113	*MATH 121	*MATH 202	MATH 222
HEALTH AND PHYSICAL ACTIVITY (GHA) 3 credits					
HLTH 101	Any 3 credits of PE courses				

● Students who graduated from high school in 2001 or later and have not completed the required two high school foreign language units can fulfill this high school requirement by completing one semester of a college level foreign language. This class is considered a high school foreign language requirement and therefore cannot be counted towards the completion of a baccalaureate degree.

● Students must complete 3 credits of United States Cultures (US) and 3 credits of International Cultures (IL). These courses are listed within the General Education Table above. * Notations are courses that meet HACC Core requirements. Highlighted courses meet the HACC 3 cr. Diversity requirement (D).