

**HARRISBURG AREA COMMUNITY COLLEGE (HACC) & SHIPPENSBURG UNIVERSITY (SHIP)
TRANSFER GUIDE FOR ENGINEERING A.S. (#4120) AT HACC
TO MECHANICAL ENGINEERING B.S. AT SHIPPENSBURG UNIVERSITY**

HACC COURSE	CRS.	SHIP EQUIV. COURSE/ AREA SATISFIED	CRS.
General Education Requirements (30 credits)			
ENGL 101 English Composition I	3	ENG 114 Academic Writing ^W	3
ENGL 104 Technical Writing	3	Gen Ed Trans Crtvty&Exprs-Lit ^L	3
COMM 101 Effective Speaking	3	HCS 100 Intro to Human Communication ^O	3
H&A (choose one): HUM 115, HUM 117, or HUM 118	3	Gen Ed: Global Perspectives ^G	3
MATH: MATH 121 Calculus I	4	MAT 211 Calculus I/ Required ^{Q, 5}	4
MATH: MATH 122 Calculus II	4	MAT 212 Calculus II/ Required	4
Sci/Lab: CHEM 101 Gen Inorganic Chem I	4	CHM 121 and 125 Chem Bonding ^N / Required	4
S&BS (choose one): ANTH 201, ANTH 205, ECON 201, GEOG 201, HIST 102 or HIST 202 or FL	3	Gen Ed: Global Perspectives ^G or Foreign Language ^F	3
FYS: ENGR 102 Engineering Orientation	2	ENGR 100 Engr Seminar I/ Required ³	2
Welness	1	Elective ³	1
Total Credits	30	Total Credits	30
Major Requirements and Transfer Electives (31 Credits)			
CAD 154 Computer-Aided Draft & Design	3	MECH 100 Engineering Graphics ^C	3
ENGR 213 Statics	3	MECH 200 Statics/ Required	3
ENGR 214 Dynamics	3	MECH 210 Dynamics/ Required	3
MATH 222 Differential Equations	4	MAT 322 Diff Equations/ Required	4
PHYS 211 Physics for Scientists I	4	PHY 205 and 123 Intermediate Physics I ^N / Required	4
PHYS 212 Physics for Scientists II	4	PHY 206 and 125 Intermediate Physics II/ Required	4
Transfer Electives (Choose at least 9 credits)			
CHEM 102 General Inorganic Chemistry II	4	CHM 122 and 126 Chem Dynamics/Required	4
GTEC 202 Statistical Quality Control	3	ENGR 310 Statistical Process Control/ Required	3
CPS 135 C Programming	3	ENGR 120 Programming for Engineers ^T / Required	3
PROGRAM TOTAL CREDITS⁵	61	TRANSFERRABLE TOTAL CREDITS	61

Overview of Shippensburg University's General Education Program

The General Education Program at Shippensburg University comprises 45 of the credit hours required for graduation. It consists of 5 themes with 2-3 required course goals in each theme

-Foundations: 15 credits (3 credit first-year seminar not currently required for transfer students)

- Writing^W, Oral Communication^O, History^H, Quantitative^Q

-Interconnections: 9 credits required from 3 goals with at least 3 credits required in Diversity and 3 credits in Global Perspectives

- Diversity^D, Global Perspectives^G, Foreign Language^F

-Citizenship & Responsibility: 6 credits required with no more than 1 course from the same goal category

- Citizenship^S, Ethical Reasoning^E, Critical Reasoning^R

-Natural World & Technology: 9 credits required with at least 6 credits completed in the Natural World category

- Natural World^N, Technology^T

-Creativity & Expression: 6 credits required with at least 3 credits required in the Literature category

- Literature^L, Arts^A, Creative^C

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TRANSFER GUIDE FOR MECHANICAL ENGINEERING**

NOTES (IMPORTANT – PLEASE READ)

1. Additional transfer credits may be taken at HACC for transfer to Shippensburg. Please speak with your advisor and/or the SHIP transfer counselor for advisement on additional coursework.
2. 0-Level courses do not count toward graduation requirements and will not transfer. HD courses may not transfer.
3. Although elective credits are transferable, the Engineering majors do not require free electives to fulfill major requirements. Therefore, elective credits earned will not count toward a B.S. at Ship.
4. ENGL 104 Technical Writing is preferred for Mechanical Engineering majors.
5. Admission to Ship's Mechanical Engineering major requires a 2.0 GPA and a Math Level 6 Placement (Calculus). Additional 100-level math courses that are required at HACC to reach the Math 121 level will count as electives at SHIP.
6. Students who plan to transfer in the fall semester should take MECH 230 at SHIP the summer prior to their fall start date.
7. Courses for Shippensburg University have been selected by joint agreement of HACC and SHIP. However, curricula are subject to change. Please speak with your advisor and/or the SHIP transfer counselor if you have any questions. A transfer counselor from SHIP visits the campus on a regular basis through the academic year. Call the SHIP Office of Admissions for the specific day and time.

FOR FURTHER INFORMATION CONTACT:

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