

## 2+2 Computer Engineering Transfer Agreement with Shepherd U and Hagerstown CC

Hagerstown Community College Course				Shepherd University Equivalent Course			
YEAR ONE				YEAR ONE			
Fall Course ID	Course Title	Cred.	CORE	Fall Course ID	Course Title	Cred.	CORE
ENG 101	English Composition	3		ENGL 101	Writing and Rhetoric I	3	T1-ENG
MAT 203	Calculus I	4		MATH 207	Calculus I	4	T1-MA
ECO 201	Macroeconomic Principles	3		ECON 205	Principles of Macroeconomics (CK)	3	T2-SO
EGR 103	Introduction to Engineering Science	3		ENGR 101	Engineering I	3	
CHM 103	General Chemistry I	4		CHEM 207/207 L	General Chemistry I	4	
FALL TOTAL	YEAR 1	17 hrs		FALL TOTAL	YEAR 1	17 hrs	
Spring Course ID	Course Title	Cred.	CORE	Spring Course ID	Course Title	Cred.	CORE
ENG 102	Composition and Literature	3		ENGL 102	Writing and Rhetoric II	3	T1-ENG
MAT 204	Calculus II	4		MATH 208	Calculus II	4	
GEO 105	World Regional Geography	3	DIV	GEOG 202	World Regions (GL)	3	T2-SO
ART 101	Intro to Visual Arts	3	AR/HM	ART 103	Introduction to Visual Art (GL)	3	T2-AR
CHM 104	General Chemistry II	4		CHEM 209/209 L	General Chemistry II (Not required)	4	
SPRING TOTAL	YEAR 1	17 hrs		SPRING TOTAL	YEAR 1	17 hrs	
YEAR TWO				YEAR TWO			
Fall Course ID	Course Title	Cred.	CORE	Fall Course ID	Course Title	Cred.	CORE
PHY 203	Principles of Physics I	5		PHYS 221/221L	General Physics I w/ Lab Elective 1cr.	4+1	T1-LS
EGR 210	Digital Logic Design	4		CPE 305	Digital Logic Design w/ Lab	4	
HIS 101	World History to 1500	3		HIST 101	Hist Civ: Ancient Worlds	3	T1-HIS
MAT 205	Calculus III	4		MATH 309	Calculus III	4	
FALL TOTAL	YEAR 2	16 hrs		FALL TOTAL	YEAR 2	16 hrs	
Spring Course ID	Course Title	Cred.	CORE	Spring Course ID	Course Title	Cred.	CORE
PHY 204	Principles of Physics II	5		PHYS 222/222L	General Physics II w/ Lab Elective 1cr.	4+1	T1-LS
MAT 206	Differential Equations	4		MATH 310	Differential Equations	4	
EGR 208/208 L	Systems and Circuits w/ Lab	4		CPE 221/222	Intro. To Electrical Engineering w/ Lab	4	
IST 232 or CSC 232	Introduction to Java Programming	3		CIS 211	Computer Language Concepts	3	
SPRING TOTAL	YEAR 2	16 hrs		SPRING TOTAL	YEAR 2	16 hrs	66 hrs

**Shepherd University Courses**

YEAR THREE				YEAR THREE			
Fall Course ID	Shepherd Course Title	Cred.	CORE	Spring Course ID	Shepherd Course Title	Cred.	CORE
CPE 224/225	Electrical Circuits w/ Lab	4		ENGR 102	Engineering II	3	
CPE 234	Introduction to Networking	3		MATH 321	Probability and Statistics	3	
				MATH 314	Statistics	3	T1-MA
MATH 307	Introduction to Linear Algebra	3		CPE 386	Computer Organization	4	
MATH 254	Discrete Mathematics	3		COMM 202	Fundamentals of Speech (MD)	3	T2-HM
CIS 104	Introduction to Computer & Infor.Sciences	3					
<b>FALL TOTAL</b>	<b>YEAR 3</b>	<b>16 hrs</b>		<b>SPRING TOTAL</b>	<b>YEAR 3</b>	<b>16 hrs</b>	
YEAR FOUR				YEAR FOUR			
Fall Course ID	Shepherd Course Title	Cred.	CORE	Spring Course ID	Shepherd Course Title	Cred.	CORE
CPE 489	Engineering Capstone Project I	1	T2-WM	CPE 490	Engineering Capstone Project II	2	T3-CP
CPE 221/222	Intro to Electrical Engineering w/ Lab	4		ENGR 242	Engineering Dynamics	3	
ENGR 241	Engineering Statics	3		CIS 390	Operating Systems	3	
CPE 433	Microprocessor System Design w/ Lab	4		Gen Ed 300+	Social Sciences (SO)	3	T2-SO
ENGR 326	Signal Processing	3		Wellness	GSPE 210/FACS 120/NURS 310	3	T2-WE
Gen Ed 300+	Humanities (HM)	3	T2-HM				
<b>FALL TOTAL</b>	<b>YEAR 4</b>	<b>18 hrs</b>		<b>SPRING TOTAL</b>		<b>14 hrs</b>	
			<b>TOTAL</b>	<b>CREDITS</b>	<b>FOR ALL FOUR YEARS</b>	<b>130</b>	

Approved By: Mary J.C. Hendrix      5-14-18  
 Mary J.C. Hendrix, President      Date  
 Shepherd University

Approved By: Carol A. Rothstein      5-14-18  
 Carol A. Rothstein, Acting Chief Academic Officer      Date  
 on behalf of C. David Warner, Interim President  
 Hagerstown Community College