

2+2 Engineering Science Environmental 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
CHM 103	General Chemistry I	4		CHEM 207/207 L	General Chemistry I w/ Lab	4	
EGR 103	Introduction to Engineering	3		ENGR 101	Engineering I	3	
Gen Ed	Social Science	3			Core Curriculum	3	T2-SO
FALL TOTAL		YEAR 1	17hrs	FALL TOTAL		YEAR 1	17hrs
Spring Course ID	Course Title	Cred.	CORE	Spring Course ID	Course Title	Cred.	CORE
CHM 104	General Chemistry II	4		CHEM 209/209 L	General Chemistry II w/ Lab	4	
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
EGR 108	Statics	3		ENGR 241	Engineering Statics	3	
SPRING TOTAL		YEAR 1	17hrs	SPRING TOTAL		YEAR 1	17hrs
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 221/221 L	General Physics I w/lab Elective 1cr	4 +1	T1-LS
EGR 203	Mech of Materials	3		ENGR 243	Engineering Mechanics of Materials	3	
EGR 206	Thermodynamics	3		ENGR 301	Engineering Thermodynamics	3	
MAT 205	Calculus III	4		MATH 309	Calculus III	4	
Gen Ed	Social Sciences	3			Core Curriculum	3	T2-SO
FALL TOTAL		YEAR 2	18hrs	FALL TOTAL		YEAR 2	18hrs
Spring Course ID	Course Title	Cred.	CORE	Spring Course ID	Course Title	Cred.	CORE
EGR 208	Systems and Circuits (w/Lab)	4		ENGR 221/222 L	Intro to Electrical Engineering w/ Lab	4	
MAT 206	Differential Equations	4		MATH 310	Differential Equations	4	
PHY 204	Principles of Physics II	5		PHYS 222/222 L	General Physics II w/ Lab Elective 1cr	4+1	T1-LS
ECO 201	Macroeconomics Principles	3		ECON 205	Principles of Macroeconomics (CK)	3	T2-HM
EGR 204	Dynamics	3		ENGR 242	Engineering Dynamics	3	
SPRING TOTAL		YEAR 2	19hrs	SPRING TOTAL		YEAR 2	19hrs 71hrs

Shepherd University Courses

YEAR THREE				YEAR THREE			
Fall Course ID	Shepherd Course Title	Cred.	CORE	Spring Course ID	Shepherd Course Title	Cred.	CORE
MATH 329 or CPE 492	Mathematical Modeling or Co-op	3		ENGR 102	Engineering II	3	
MATH 307	Introduction of Linear Algebra	3		ENGL 102	Writing and Rhetoric II	3	T1-ENG
ENVS 201/201 L	Environmental Science I	4	T1-LS	ENVS 202/202 L	Environmental Science II	4	T1-LS
ENVS 390	Geographic Info Systems	4		ENVS 341	Sustainable Energy w/ Lab	4	
FALL TOTAL	YEAR 3	14hrs		SPRING TOTAL	YEAR 3	14hrs	
YEAR FOUR				YEAR FOUR			
Fall Course ID	Shepherd Course Title	Cred.	CORE	Spring Course ID	Shepherd Course Title	Cred.	CORE
ENGR 489	Engineering Capstone Project I	1	T2-WM	ENGR 490	Engineering Capstone Project II	2	T3
ENVS 441	Hydrology and Lab	4		CHEM 333/333 L	Environmental Chemistry w/ Lab	4	
MATH 314	Statistics	3	T1-MA	PHYS 301	Energy	4	
Wellness	GSPE 210/FACS 120/NURS 310	3	T2-WE	Gen Ed	Humanities (MD)	3	T2-HM
Gen Ed	History	3	T1-HIST				
FALL TOTAL	YEAR 4	14hrs		SPRING TOTAL	YEAR 4	13hrs	
			TOTAL	CREDITS	FOR ALL FOUR YEARS	126	

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