

HARPER COLLEGE – ASSOCIATES IN ENGINEERING SCIENCE (A.E.S.) DEGREE

Course	Course Name	Credit Hours	Valpo Transfer Equivalency Course	Valpo Transfer Equivalency Name	Transfer Equivalency Credit Hours
CHM-121	General Chemistry I	5	CHEM-121 + CHEM UND	General Chemistry I + Chem Undistr.	4 + 1
CHM-122	General Chemistry II	5	CHEM-122 + CHEM UND	General Chemistry II + Chem Undistr.	4 + 1
CHM-204	Organic Chemistry I	5	CHEM-221 + CHEM UND	Organic Chemistry I + Chem Undistr.	4 + 1
CHM-205	Organic Chemistry II	5	CHEM-222+ CHEM UND	Organic Chemistry II + Chem Undistr.	4 + 1
CSC-121	Computer Science I	4	CS-157 + CS UND	Algorithms & Programming+ Comp Science Undistr.	3 + 1
CSC-122	Computer Science II	4	CS-158 + CS UND	Algorithms & Abstract Data Types	3 + 1
EGR-100	Intro to Engineering	1	GE-199 + GE UND	Engineering Seminar + General Engineering Undistr.	0 + 1
EGR-120	Engineering Graphics I (CAD)	4	GE-UND	General Engineering Undistr.	4
EGR-210	Analytical Mechanics – Statics	3	GE-109	Mechanics- Statics	3
EGR-211	Analytical Mechanics- Dynamics	3	ME-209	Mechanics- Dynamics	3
EGR-212	Mechanics of Solids	3	CE -215	Mechanics of Materials	3
EGR-240	Thermodynamics	3	ME-UND	Mechanical Engineering Undistributed	3
EGR-260	Intro to Circuit Analysis	4	ECE-261 + ECE UND	Linear Circuit Theory I + Elec Comp Eng.	3 + 1

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EGR-262	Electrical Circuits Lab	2	ECE-262	Linear Circuit Theory II	2
EGR-270	Intro to Digital Systems	4	ECE-221 + ECE UND	Digital Logic Design + Elec. Comp Eng. Undistr.	3 + 1
ENGL-102	Composition	3	ENGL-UND	English Undistributed	3
MTH-200	Calculus with Analytic Geometry I	5	MATH-131 + MATH UND	Calculus I + Math Undistr.	4 + 1
MTH-201	Calculus with Analytic Geometry II	5	MATH-132 + MATH UND	Calculus II + Math Undistr.	4 + 1
MTH-202	Calculus with Analytic Geometry III	5	MATH-253	Calculus III	4 + 1
MTH-212	Differential Equations	3	MATH-270	Ordinary Differential Equations	3
MTH-220	Discrete Mathematics	3	MATH-UND	Math Undistributed	3
PHY-201	General Physics I: Mechanics	5	PHYS-141 + PHYS-141L + PHYS-UND	Newtonian Mechanics + Lab + Physics Undistr.	3 + 1 + 1
PHY-202	General Physics II: Electricity & Magnetism	5	PHYS-142 + PHYS-142L + PHYS-UND	Electricity, Magnetism, & Waves + Experimental Physics + Physic Undistr.	3 + 1 + 1
PHY-203	Thermal & Quantum Physics	5	PHYS-243 + PHYS-UND	Atoms & Nuclei + Physics Undistr.	3 + 2