A. James Clark School of Engineering AT The Universities at Shady Grove

University of Maryland Department of Electrical & Computer Engineering

ABET Engineering Accreditation Commission

CYBER-PHYSICAL SYSTEMS ENGINEERING

Prerequisite Equivalencies

Course Title	University of Maryland	Montgomery College	Frederick Community College	Howard Community College	Prince George's Community College	Anne Arundel Community College
Introduction to Engineering Design	ENES100	ENES100	ENGR100	ENES100	EGR1010	EGR120
Calculus I	MATH140	MATH181	MATH185	MATH181	MAT2410	MAT191
Calculus II	MATH141 *(Minimum of B-)*	MATH182	MATH195	MATH182	MAT2420	MAT192
MATH2xx (select one):						
Linear Algebra	MATH240	MATH284	MATH265	MATH250	MAT2450	MAT202
Calculus III	MATH241	MATH280	MATH285	MATH240	MAT2430	MAT201
Differential Equations	MATH246	MATH282	MATH275	MATH260	MAT2460	MAT212
General Physics: Mechanics & Particles Dynamics	PHYS161 *(Minimum of B-)*	PHYS161	PHYS151	PHYS110	PHY1030	PHY211
General Physics: Vibration, Waves, Heat, Electricity and Magnetism	PHYS260/261	PHYS262	PHYS252	PHYS111	PHY2030	PHY212
General Chemistry for Engineers	CHEM271 or CHEM135 *(Minimum of C-)*	CHEM132 or CHEM135	CHEM102	CHEM135 or CHEM102	CHM1020 or CHM2000	CHE112
Programming**	N/A	CMSC140 or CMSC203	CMIS105 or CMIS140	CMSY141 or CMSY166 or CMSY156	INT2200	**CONTACT ADVISOR**

Questions? Contact es-sg@umd.edu

NOTE: All major requirements must be completed with a C- or better.
* Students who take an equivalent to CHEM134 must also have completed an equivalent to CHEM131 with a minimum grade of a C-**An introductory programming course (in C, C++, Java, or Python) is required. Other courses may be reviewed as needed.