



TRANSFER ADVISING SHEET



School of Engineering & Applied Sciences

Electrical Engineering BS

Montgomery College Associate of Science Degree in Electrical Engineering

Catalog Year 2013-14

MC Code: 407

Purpose: The curriculum is designed to permit the student to transfer into a baccalaureate degree program in Electrical Engineering. **The Electrical Engineering program at UDC is accredited by the Engineering Accreditation Commission of ABET, Inc.**

	Montgomery Course A.S. in Electrical Engineering	Credits	UDC Requirements for a B.S. in Electrical Engineering		Credits
ES 100	Intro to Engineering Design	3	CCEN-101	Introduction to Engineering	2
CH 135	General Chemistry for Engineers	4	CHEM-111/113	General Chemistry I Lec/Lab	4
MA 181	Calculus I	4	MATH 151 &155	Calculus I (Lec/Lab)	4
MA 182	Calculus II	4	MATH 152 &156	Calculus II (Lec/Lab)	4
MA 280	Multivariable Calculus	4			
MA 282	Differential Equations	3	MATH 260	Differential Equations & Linear Algebra	4
PH 161	General Physics I	3	PHYS-201/205	University Physics I (Lec/Lab)	4
PH 262	General Physics II	4	PHYS-202/206	University Physics II (Lec/Lab)	4
PH 263	General Physics III	4	PHYS-203/207	University Physics III (Lec/Lab)	4
EE 222	Elements of Discrete Signal Analysis	3	ELEC 371/374	Signals and Systems (Lec/Lab)	4
EE 244	Digital Logic Design	3	ELEC 311	Computer Organization I (Lec)	3
EE 245	Digital Circuits and Systems Lab	2	ELEC 313	Computer Organization I (Lab)	1
EE 140	Introduction to Programming Concepts for Engineers	2	APCT 231/233	Computer Science I (lec/Lab)	4
EE 150	Intermediate Programming Concepts for Engineers	3			
EE 207	Electric Circuits	4	ELEC221/223/222/224*	Electrical Circuits I , II (Lec/Lab)	8
EN 102	Techniques of Reading and Writing II	3	IGED -XXX	General Education	3
	Arts distribution	3	IGED -XXX	General Education	3
	Humanities distribution	3	IGED -XXX	General Education	3
	Behavioral & Social Science Dist.	3	IGED -XXX	General Education	3
	Behavioral & Social Science Dist.	3	IGED -XXX	General Education	3
	Health foundation	1	N/A		
TOTAL MC credits		66	Total equivalent UDC credits		65

* Upon review of student grades of EE 207

Additional UDC Courses for BS Electrical Engineering					
ELEC-301	Engineering Mathematics	3	MECH 201	Engineering Mechanics	3
ELEC 351	Electronics I (Lec.)	3	ELEC 353	Electronics I (Lab)	1
ELEC 356	Physical Electronics	3	ELEC 361	Electromagnetic Theory	3
ELEC 312	Computer Organization II (Lec)	3	ELEC 314	Computer Organization II (Lab)	1
ELEC 352	Electronics II (Lec.)	3	ELEC 354	Electronics II (Lab)	1
ELEC 307	Probability and Statistics for Engineers	3	IGED-280*	Discovery CIVIC/Ser/Teamwork	3
ELEC 467	Intro to Communication (Lec.)	3	ELEC 476	Intro to Communication (Lab.)	1
ELEC 470	Control Systems and Applications (Lec)	3	ELEC 477	Control Systems and Applications (Lab)	1
ELEC XXX	Electrical Engineering Electives	7	ELEC XXX	Electrical Engineering Electives	6
ELEC 495	Senior Project I (capstone)	3	MECH 460	Engineering Economics	3
ELEC 496	Senior Project II (capstone)	3	IGED-270 or IGED-140*	Discov. Loc/Glob Cul Diversity Foundations Ethics and Values	3
TOTAL Additional credits					63

*All students are required to take two general education requirement courses (among IGED-140, IGED-270, and IGED-280). If the student took a Philosophy course (other than logic) or Ethics course, IGED-270 and IGED-280 need to be taken. Otherwise, the student needs to take IGED-140 and IGED-280.

Total credit hours required to graduate in B.S. Electrical Engineering from UDC is 128 Credit Hours