



TRANSFER ADVISING SHEET



School of Engineering & Applied Sciences

Civil Engineering BS

Montgomery College Associate of Science Degree in General Engineering

Catalog Year 2013-14

MC Code: 410

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

	Montgomery Courses A.S. in General Engineering	Credits	UDC Requirements to B.S. in Civil Engineering		Credits
ES 100	Intro to Engineering Design	3	MECH-105 & CCNE-101	Computer Aided Graphics/Intro to Eng.	5
CH 101	Principles of Chemistry I	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 254	Differential Equations	3
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
ES 240	Scientific & Engineering Computation	3	CVEN-308	Numerical Analysis	3
ES 102	Statics	3	CVEN-201	Engineering Mechanics I	3
ES 221	Dynamics	3	CVEN-202	Engineering Mechanics II	3
ES 220	Mechanics of Materials	3	3509-206	Mechanics of Materials (Lec)	3
ES 232	Thermodynamics	3	MECH 208	Thermodynamics	3
EN 102	Techniques of Reading and Writing II	3	IGED -XXX	General Education	3
EN 101	(If needed for EN102) Techniques of Reading and Writing I	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		64	Total equivalent UDC credits		58

Additional UDC Courses for BS Civil Engineering					
IGED-270 or IGED-140*	Discov. Loc/Glob Cul Diversity Foundations Ethics and Values	3	CVEN -435	Foundation Design	3
IGED-280*	Discov. Civ/Ser/Team	3	CVEN -442	Water Resources Engineering	3
CSCI-135	Scientific Programming	3	CVEN -476	Construction Planning & Scheduling	3
	Basic Science Elective Lec & Lab	4	CVEN -476	Construction Project Management	3
3509-207	Mechanics of Materials Lab	1	CVEN -406	Engineering Economics	3
MATH-381	Probability & Statistics	3	CVEN -xxx	CE Technical Elective - Transportation	3
CVEN -311	Theory of Structures Lec & Lab	4	CVEN xxx	CE Technical Elective - Transportation	3
CVEN -312	Design of Steel Structures	3	CVEN -xxx	CE Technical Elective	3
CVEN -352/354	CE Materials Lec & Lab	4	CVEN -481	FE Preparation	1
CVEN -325/327	Hydraulics & Hydrology Lec Lab	4	CVEN -491	Sr. Project in Civil Engineering I	3
CVEN-331/332	Geotechnical Engineering Lec/Lab	4	CVEN -492	Sr. Project in Civil Engineering II	3
CVEN -311	Theory of Structures Lec & Lab	4	CVEN -464	Eng. Ethics & Professional Practice	1-3
TOTAL Additional credits					70

*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. Civil Engineering from UDC is 128 Credit Hours