

COLLEGE OF ENGINEERING

ENGINEERING

Southern Illinois University at Carbondale

Course Substitution List

Harold Washington College 2005-07

College Name/Catalog Date

SIUC 2006-07					Harold Washington College 2005-07	
Civil Engineering	Computer Engineering	Electrical Engineering	Mechanical Engineering	Mining Engineering	Course Title	Course Substitute(s)
ENGR 102	--	--	ENGR 102	ENGR 102	Eng. Graphics	ENGR 131
--	ECE 222 or CS 202	ECE 222 or CS 202	ENGR 222B	--	C++ Programming ¹	CIS 142 or ENGR 190 ¹
--	CS 220	CS 220	--	--	JAVA Programming ²	CIS 144 ²
--	CS 220	CS 220	--	--	Program with Data Structures	
CE 250	--T	--T	CE 250	CE 250	Statics	ENGR 206 or PHYS 215
CE 251	--	--	ME 261	CE 251	Dynamics	PHYS 216
CE 350A	--	--	CE 350A	CE 350A	Mechanics of Deform. Bodies ⁴	PHYS 217
--	ECE 235	ECE 235	ENGR 335	ENGR 335	Elec. Circuits	
--	ECE 225	ECE 225	--	--	Digital Systems	
CHEM 200 + CHEM 201	CHEM 200 ³ + CHEM 201	CHEM 200 ³ + CHEM 201	CHEM 200 ³ + CHEM 201	CHEM 200 + CHEM 201	Intro. Chem. Principles	CHEM 201
CHEM 210	--T	--T	--T	CHEM 210	General & Inorganic Chem.	CHEM 203
--	--	--	--	GEOL 220	Physical Geology	GEOL 201
MATH 150	MATH 150	MATH 150	MATH 150	MATH 150	Calculus I	MATH 207
MATH 250	MATH 250	MATH 250	MATH 250	MATH 250	Calculus II	MATH 208
MATH 251	MATH 251	MATH 251	MATH 251	MATH 251	Calculus III	MATH 209
MATH 305	MATH 305	MATH 305	MATH 305	MATH 305	Diff. Equations	MATH 210
--	--T	--T	--T	--	Intro. to Linear Algebra	MATH 212
PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	Univ. Physics I	PHYS 235
PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	Univ. Physics II	PHYS 236
PHYS 205C + PHYS 255C	PHYS 205C ³ + PHYS 255C	PHYS 205C ³ + PHYS 255C	--	--	Univ. Physics III	PHYS 237

¹ C++ Programming is recommended for Computer, Electrical, and Mechanical Engineering Majors.

² JAVA Programming may be substituted for C++ Programming for Electrical and Computer Engineering Majors.

³ Third Science Course may be either Chemistry I **or** Physics III.

⁴ One hour of laboratory will be required in Mechanics of Deformable Bodies.

-- Not Required

--T Not Required But Will Count as Technical Elective

COLLEGE OF ENGINEERING
ENGINEERING TECHNOLOGY
Southern Illinois University at Carbondale
Course Substitution List

Harold Washington College 2005-07
College Name/Catalog Date

SIUC 2006-07	Harold Washington College 2005-07	
Electrical Engineering Technology	Course Title	Course Substitute(s)
ENGR 222B	C++ Programming	ENGR 190 or CIS 142
--T	Engineering Drawing I	
--T	Engineering Drawing II	MT 172
ET 238	Digital Electronics	
ET 245A	Elec. Systems	
--T	Processes Lab	
--T	Statics	ENGR 206 or PHYS 215
--T	Dynamics	PHYS 216
ET 304A ¹	Electrical Circuits	
--T	Strength of Materials	PHYS 217 ¹
CHEM 140A	Chemistry	CHEM 121
MATH 111	College Algebra & Trigonometry	MATH (140 + 141)
MATH 140	Short Course in Calculus	MATH 204
MATH 282	Intro. to Statistics	MATH 125
PHYS 203A + PHYS 253A	College Physics I	PHYS 221
PHYS 203B + PHYS 253B	College Physics II	PHYS 222

¹ One Hour of Laboratory Will Be Required at SIUC.
--T Not Required But Will Count as Technical Elective

COLLEGE OF ENGINEERING
INDUSTRIAL TECHNOLOGY
Southern Illinois University at Carbondale
Course Substitution List

Harold Washington College 2005-07
College Name/Catalog Date

SIUC 2006-07		Harold Washington College 2005-07
Industrial Technology	Course Title	Course Substitute(s)
IT 105	Computer-Aided Drafting	ARCH 170
IT 208	Manufacturing Processes	
IT 270 or CS 200B	Introduction to Business Computing	CIS 103 or 120
IT 307 or MATH 140	Short Course in Calculus	MATH 204
MATH 111	College Algebra and Trigonometry	MATH (140 + 141)
PHYS 203A + PHYS 253A	College Physics I	PHYS 221
PHYS 203B + PHYS 253B	College Physics II	PHYS 222
TE	Technical Electives - 29 hours	Up to 29 technical elective hours may be transferred in IT. The technical elective requirement is fulfilled with an A.A.S. Degree.