

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

Highland Community College 2006-09
College Name/Catalog Date

SIUC 2006-07					Highland Community College 2006-09	
Civil Engineering	Computer Engineering	Electrical Engineering	Mechanical Engineering	Mining Engineering	Course Title	Course Substitute(s)
ENGR 102	--	--	ENGR 102	ENGR 102	Eng. Graphics	DRAF 151 or 260
--	ECE 222 or	ECE 222 or	ENGR 222B	--	C++ Programming	INFT 190 ¹ or MATH 262
--	CS 202	CS 202	--	--	JAVA Programming ²	
--	CS 220	--T	--	--	Prog. Data Structures	
CE 250		--T	CE 250	CE 250	Statics	MATH 266
CE 251		--	ME 261	CE 251	Dynamics	MATH 266
CE 350A	--	--	CE 350A	CE 350A	Mechanics of Deform. Bodies	
--	ECE 235 ³	ECE 235 ³	ENGR 335	ENGR 335	Elec. Circuits	PHYS 246
--	ECE 225	ECE 225	--	--	Digital Systems	
CHEM 200 + CHEM 201	CHEM 200 ⁴ + CHEM 201	CHEM 200 ⁴ + CHEM 201	CHEM 200 + CHEM 201	CHEM 200 + CHEM 201	Intro. Chem. Principles	CHEM 123
CHEM 210	--T	--T	CHEM 210	CHEM 210	General & Inorganic Chem.	CHEM 124
--	--	--	--	GEOL 220	Physical Geology	GEOL 126
MATH 150	MATH 150	MATH 150	MATH 150	MATH 150	Calculus I	MATH 168
MATH 250	MATH 250	MATH 250	MATH 250	MATH 250	Calculus II	MATH 268
MATH 251	MATH 251	MATH 251	MATH 251	MATH 251	Calculus III	MATH 269
MATH 305	MATH 305	MATH 305	MATH 305	MATH 305	Diff. Equations	MATH 265
--	--T	--T	--	--	Intro. to Linear Algebra	MATH 270
PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	Univ. Physics I	PHYS 143
PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	Univ. Physics II	PHYS 144
PHYS 205C + PHYS 255C	PHYS 205C ⁴ + PHYS 255C	PHYS 205C ⁴ + PHYS 255C	--	--	Univ. Physics III	PHYS 145

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

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

³ One hour of laboratory will be required at SIUC.

⁴ Third Science Course may be either Chemistry I or Physics III for Electrical or Computer Engineering Majors

-- Not Required

--T Not Required But Will Count as Technical Elective

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

Highland Community College 2006-09
College Name/Catalog Date

SIUC 2006-07	Highland Community College 2006-09	
Electrical Engineering Technology	Course Title	Course Substitute(s)
ECE 222B	C++ Programming	INFT 190 or Math 262
--T	Engineering Drawing I	DRAF 102 or 151
--T	Engineering Drawing II	DRAF 105 + 260
ET 238	Digital Electronics	
ET 245A	Elec. Systems	
--T	Processes Lab	MTEC 164
--T	Statics	MATH 266 or MTEC 264
--T	Dynamics	MATH 266
ET 304A ¹	Electrical Circuits	PHYS 246
--T	Strength of Materials	
CHEM 140A	Chemistry	CHEM 101
MATH 111	College Algebra & Trigonometry	MATH 166 + 167
MATH 140	Short Course in Calculus	MATH 172
MATH 282	Intro. to Statistics	MATH 177
PHYS 203A + PHYS 253A	College Physics I	PHYS 141
PHYS 203B + PHYS 253B	College Physics II	PHYS 142

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

Highland Community College 2006-09
College Name/Catalog Date

SIUC 2006-07		Highland Community College 2006-09
Industrial Technology	Course Title	Course Substitute(s)
IT 105	Computer-Aided Drafting	DRAF 101 or 105
IT 208	Manufacturing Processes	MTEC 164
IT 270 or CS 200B	Introduction to Business Computing	INFT 180
IT 307 or MATH 140	Short Course in Calculus	MATH 172
MATH 111	College Algebra and Trigonometry	MATH 166 + 167
PHYS 203A + PHYS 253A	College Physics I	PHYS 141
PHYS 203B + PHYS 253B	College Physics II	PHYS 142
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.