

COLLEGE OF ENGINEERING

ENGINEERING

Southern Illinois University at Carbondale
Course Substitution List

Richland Community College 2007-08
College Name/Catalog Date

SIUC 2008-09					Richland Community College 2007-08	
Civil Engineering	Computer Engineering	Electrical Engineering	Mechanical Engineering	Mining Engineering	Course Title	Course Substitute(s)
ENGR 102	--	--	ENGR 102	ENGR 102	Eng. Graphics	ENGR 110
--	ECE 222	ECE 222	ENGR 222B	--	C++ Programming ¹	CS 251 ¹
--	or CS 202	or CS 202		--	Java Programming ²	CS 251 ²
--	CS 220	CS 220	--	--	Prog. Data Structures	CS 281
CE 250	--T	--T	CE 250	CE 250	Statics	ENGR 211
ME 261	--T	--T	ME 261	ME 261	Dynamics	ENGR 212
CE 350A	--	--	CE 350A	CE 350A	Mechanics of Deform. Bodies	
--	ECE 235	ECE 235	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 + CHEM 201	CHEM 200 + CHEM 201	Intro. Chem. Principles	CHEM 131
CHEM 210	--T	--T	CHEM 210	CHEM 210	General & Inorganic Chem.	CHEM 132
--	--	--	--	GEOL 220	Physical Geology	EASCI 220
MATH 150	MATH 150	MATH 150	MATH 150	MATH 150	Calculus I	MATH 121
MATH 250	MATH 250	MATH 250	MATH 250	MATH 250	Calculus II	MATH 122
MATH 251	MATH 251	MATH 251	MATH 251	MATH 251	Calculus III	MATH 221
MATH 305	MATH 305	MATH 305	MATH 305	MATH 305	Diff. Equations	MATH 230
PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	Univ. Physics I	PHYS 151
PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	Univ. Physics II	PHYS 152
PHYS 205C + PHYS 255C	PHYS 205C ³ + PHYS 255C	PHYS 205C ³ + PHYS 255C	--	--	Univ. Physics III	PHYS 153

¹ C++ Programming is recommended for Mechanical Engineering Majors.

² Electrical and Computer Engineering Majors may take either C++ or JAVA Programming.

³ Third science course may be Chemistry I **or** Physics III for Electrical and 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

Richland Community College 2007-08
 College Name/Catalog Date

SIUC 2008-09	Richland Community College 2007-08	
Electrical Engineering Technology	Course Title	Course Substitute(s)
ENGR 222B	C++ Programming	CS 251
--T	Engineering Drawing I	DRAFT 101 + (102 or 130)
--T	Engineering Drawing II	DRAFT 215 + 220
ET 238	Digital Electronics	ELTRN 160
ET 245A	Elec. Systems	ELTRN 111
--T	Processes Lab	ENGT 100
--T	Statics	ENGR 211
--T	Dynamics	ENGR 212
ET 304A	Electrical Circuits	
--T	Strength of Materials	
CHEM 140A	Chemistry	CHEM 100
MATH 108 + 109	College Algebra & Trigonometry	MATH 116 + 117
MATH 150	Calculus I	MATH 121
MATH 250	Calculus II	MATH 122
PHYS 203A + PHYS 253A	College Physics I	PHYS 101
PHYS 203B + PHYS 253B	College Physics II	PHYS 102

--T Not required but will count as Technical Elective

Revised 12/13/07

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

Richland Community College 2007-08
College Name/Catalog Date

SIUC 2008-09		Richland Community College 2007-08
Industrial Technology	Course Title	Course Substitute(s)
IT 110	Geometric Dimensioning & Tolerancing	ENGT 102
IT 208	Manufacturing Processes	ENGT 100
IT 270 or CS 200B	Introduction to Business Computing	CIS 110
IT 307 or MATH 140	Short Course in Calculus	MATH 190
MATH 111	College Algebra and Trigonometry	MATH 116 + 117
PHYS 203A + PHYS 253A	College Physics I	PHYS 101
PHYS 203B + PHYS 253B	College Physics II	PHYS 102
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.