

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

Joliet Junior College 2007-09
 College Name/Catalog Date

SIUC 2008-09					Joliet Junior College 2007-09	
Civil Engineering	Electrical Engineering	Computer Engineering	Mechanical Engineering	Mining Engineering	Course Title	Course Substitute(s)
ENGR 102	--	--	ENGR 102	ENGR 102	Eng. Graphics	EGR 101
--	--	--	--	--	Fortran Programming	CIS 134
--	ECE 222 ² or CS 202	ECE 222 ² or CS 202	Engr 222B ¹	--	C++ Programming ¹	CIS 236 ¹ or 246
--			--	--	Java Programming ²	CIS 261 ²
--			--	--	Prog. with Data Structures	
CE 250	--T	--T	CE 250	CE 250	Statics	EGR 201
CE 251	--T	--T	ME 261	CE 251	Dynamics	EGR 202
CE 350A	--T	--T	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 101
CHEM 210	--T	--T	CHEM 210	CHEM 210	General & Inorganic Chem.	CHEM 102
--	--	--	--	GEOL 220	Physical Geology	GEOL 101
MATH 150	MATH 150	MATH 150	MATH 150	MATH 150	Calculus I	MATH 170
MATH 250	MATH 250	MATH 250	MATH 250	MATH 250	Calculus II	MATH 171
MATH 251	MATH 251	MATH 251	MATH 251	MATH 251	Calculus III	MATH 172
MATH 305	MATH 305	MATH 305	MATH 305	MATH 305	Diff. Equations	MATH 220
--	--T	--T	--	--	Intro. to Linear Algebra	MATH 210
PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	Univ. Physics I	PHYS 201
PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	Univ. Physics II	PHYS 202
PHYS 205C + PHYS 255C	Phys 205C ³ + Phys 255C	Phys 205C ³ + Phys 255C	--	--	Univ. Physics III	PHYS 203

¹"C++" Programming is Recommended for Mechanical Engineering Majors.

² JAVA Programming is Recommended for Electrical Engineering and Computer Engineering.

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

Joliet Junior College 2007-09
 College Name/Catalog Date

SIUC 2008-09	Joliet Junior College 2007-09	
Electrical Engineering Technology	Course Title	Course Substitute(s)
ENGR 222B	C++ Programming	CIS 236 or 246
ET 238	Digital Electronics	EET 114
ET 245A	Elec. Systems	EET 113
--T	Processes Lab	MFG 103
--T	Statics	EGR 201
--T	Dynamics	EGR 202
ET 304A ¹	Electrical Circuits	
--T	Strength of Materials	
CHEM 140A	Chemistry	CHEM 100 or 101
MATH 111	College Algebra & Trigonometry	MATH 131 + 135, 141, or 142
MATH 150	Calculus I	MATH 170
MATH 250	Calculus II	MATH 171
PHYS 203A + PHYS 253A	College Physics I	PHYS 101 or 103
PHYS 203B + PHYS 253B	College Physics II	PHYS 102 or 104

--T Not Required But Will Count as Technical Elective

Revised 12/13/2007

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

Joliet Junior College 2007-09
College Name/Catalog Date

SIUC 2008-09		Joliet Junior College 2007-09
Industrial Technology	Course Title	Course Substitute(s)
IT 110	Geometric Dimensioning & Tolerancing	MFG 200
IT 208	Manufacturing Processes	MFG 103
IT 270 or CS 200B	Introduction to Business Computing	CIS 122 or 130
IT 307 or MATH 140	Short Course in Calculus	MATH 150
MATH 111	College Algebra and Trigonometry	MATH 131 + 135, 141 or 142
PHYS 203A + PHYS 253A	College Physics I	PHYS 101 or 103
PHYS 203B + PHYS 253B	College Physics II	PHYS 102 or 104
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.