

COLLEGE OF ENGINEERING
ENGINEERING
 Southern Illinois University Carbondale
 Course Substitution List

Elgin Community College 2006/07
 College Name/Catalog Date

SIUC 2006/07					Elgin Community College 2006/07	
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	
--		--	ENGR 222B ¹	--	C++ Programming ¹	CIS 123 or MTH 123
--	ECE 222 ²	ECE 222 ²	--	--	JAVA Programming ²	CIS 207
--	--	CS 220	--	--	Prog. with Data Structures	CIS 223
CE 250	--T	--T	CE 250	CE 250	Statics	EGR 152
CE 251	--T	--T	ME 261	CE 251	Dynamics	EGR 252
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	CHM 142
CHEM 210	--T	--T	CHEM 210	CHEM 210	General & Inorganic Chem.	CHM 143
--	--	--	--	GEOL 220	Physical Geology	GLY 112
MATH 150	MATH 150	MATH 150	MATH 150	MATH 150	Calculus I	MTH 133
MATH 250	MATH 250	MATH 250	MATH 250	MATH 250	Calculus II	MTH 134
MATH 251	MATH 251	MATH 251	MATH 251	MATH 251	Calculus III	MTH 201
MATH 305	MATH 305	MATH 305	MATH 305	MATH 305	Diff. Equations	MTH 202
--	--T	--T	--	--	Intro. to Linear Algebra	MTH 135
PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	Univ. Physics I	PHY 111
PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	Univ. Physics II	PHY 112
PHYS 205C + PHYS 255C	PHYS 205C ³ + PHYS 255C	PHYS 205C ³ + PHYS 255C	--	--	Univ. Physics III	PHY 113

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

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

³ Third Science Course may be either 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 Carbondale
 Course Substitution List

Elgin Community College 2006/07
 College Name/Catalog Date

<u>SIUC 2006/07</u>	<u>Elgin Community College 2006/07</u>	
Electrical Engineering Technology	Course Title	Course Substitute(s)
ENGR 222B	C++ Programming	CIS 123 or MTH 123
--T	Engineering Drawing I	EGR 101 or CAD 101
--T	Engineering Drawing II	CAD 118
ET 238	Digital Electronics	
ET 245A	Elec. Systems	
--T	Processes Lab	
--T	Statics	EGR 152
--T	Dynamics	EGR 252
ET 304A	Electrical Circuits	
--T	Strength of Materials	
CHEM 140A	Chemistry	CHM 101
MATH 111	College Algebra & Trigonometry	MTH 112 + 114
MATH 140	Short Course in Calculus	MTH 126
MATH 282	Intro. to Statistics	MTH 120
PHYS 203A + PHYS 253A	College Physics I	PHY 101
PHYS 203B + PHYS 253B	College Physics II	PHY 102

--T Not Required But Will Count as Technical Elective

Revised 4/29/06

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

Elgin Community College 2006/07
 College Name/Catalog Date

SIUC 2006-07		Elgin Community College 2006-07
Industrial Technology	Course Title	Course Substitute(s)
IT 105	Computer-Aided Drafting	CAD 108 or EGR 101
IT 208	Manufacturing Processes	
IT 270 or CS 200B	Introduction to Business Computing	CIS 110
IT 307 or MATH 140	Short Course in Calculus	MTH 126
MATH 111	College Algebra and Trigonometry	MTH 112 + 114
PHYS 203A + PHYS 253A	College Physics I	PHY 101 or 105
PHYS 203B + PHYS 253B	College Physics II	PHY 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.