

COLLEGE OF ENGINEERING

ENGINEERING

Southern Illinois University Carbondale

Course Substitution List

St. Louis Community College:
Florissant Valley, Forest Park, and Meramec 2007-08
College Name/Catalog Date

SIUC 2008-09					St. Louis Community College 2007-2008	
Civil Engineering	Computer Engineering	Electrical Engineering	Mechanical Engineering	Mining Engineering	Course Title	Course Substitute(s)
ENGR 102	--	--	ENGR 102	ENGR 102	Eng. Graphics	EGR 100
--	ECE 222 or CS 202	ECE 222 or CS 202	ENGR 222B	--	C++ Programming	IS 256 ¹
--			--	--	JAVA Programming ²	IS 251 ²
--	CS 220	--T	--	--	Programs with Data Structures	
CE 250	CE 250	CE 250	CE 250	CE 250	Statics	ESC 203
CE 251	--	--	ME 261	CE 251	Dynamics	ESC 204
CE 350A + CE 350B	--	--	CE 350A + CE 350B	CE 350A + CE 350B	Mechanics of Deform. Bodies	ESC 205 + 206
--	ECE 235	ECE 235	ENGR 335	--	Elec. Circuits	ESC 200+201
--	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 105
CHEM 210	--T	--T	CHEM 210	CHEM 210	General & Inorganic Chem.	CHM 106
--	--	--	--	GEOL 220	Physical Geology	GEO 111
MATH 150	MATH 150	MATH 150	MATH 150	MATH 150	Calculus I	MTH 210
MATH 250	MATH 250	MATH 250	MATH 250	MATH 250	Calculus II	MTH 220
MATH 251	MATH 251	MATH 251	MATH 251	MATH 251	Calculus III	MTH 230
MATH 305	MATH 305	MATH 305	MATH 305	MATH 305	Diff. Equations	MTH 240
--	--T	--T	--	--	Intro. to Linear Algebra	MTH 215
PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	Univ. Physics I	PHYS 122
PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	Univ. Physics II	PHYS 223
PHYS 205C + PHYS 255C	PHYS 205C ³ + PHYS 255C	PHYS 205C ³ + PHYS 255C	--	--	Univ. Physics III	PHYS 224

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 either Chemistry I or Physics III

-- Not Required

--T Not Required But Will Count as Technical Elective

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

St. Louis Community College:
Florissant Valley, Forest Park and Meramec 2007-2008
 College Name/Catalog Date

SIUC 2008-09	St. Louis Community College 2007-2008	
Electrical Engineering Technology	Course Title	Course Substitute(s)
ECE 222	C++ Programming	IS 256
--T	Engineering Drawing I	EGR 100 or 133
--T	Engineering Drawing II	EGR 104, 110
ET 238	Digital Electronics	EE 242
ET 245A	Elec. Systems	EE 131
--T	Processes Lab	ME 151
--T	Statics	ME 135
--T	Dynamics	ME 242
ET 304A ¹	Electrical Circuits	
--T	Strength of Materials	ME 243
CHEM 140A	Chemistry	CHM 101 or 105
MATH 108 + 109	College Algebra & Trigonometry	MTH (160C + 170), 185 or 144
MATH 150	Calculus I	MTH 210
MATH 250	Calculus II	MTH 220
PHYS 203A + PHYS 253A	College Physics I	PHY 111
PHYS 203B + PHYS 253B	College Physics II	PHY 112

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 Carbondale
 Course Substitution List

St. Louis Community College:
Florissant Valley, Forest Park and Meramec 2007-2008
 College Name/Catalog Date

SIUC 2008-09		St. Louis Community College 2007-2008
Industrial Technology	Course Title	Course Substitute(s)
IT 105	Computer-Aided Drafting	EGR 100
IT 110	Geometric Dimensioning & Tolerancing	
IT 208	Manufacturing Processes	ME 151
IT 270 or CS 200B	Introduction to Business Computing	IS 103 or IS 151
IT 307 or MATH 140	Short Course in Calculus	MTH 186 or 154
MATH 111	College Algebra and Trigonometry	MTH 144, 185 or (160C + 170)
PHYS 203A + PHYS 253A	College Physics I	PHY 111
PHYS 203B + PHYS 253B	College Physics II	PHY 112
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.