

COLLEGE OF ENGINEERING

ENGINEERING

Southern Illinois University at Carbondale

Course Substitution List

Southeastern Illinois College (Harrisburg) 2008-10

College Name/Catalog Date

SIUC 2008-09					Southeastern (Harrisburg) Community College 2008-10	
Civil Engineering	Electrical Engineering	Computer Engineering	Mechanical Engineering	Mining Engineering	Course Title	Course Substitute(s)
ENGR 102	--	--	ENGR 102	ENGR 102	Eng. Graphics	GRAP 121
--	ECE 222	ECE 222	ENGR 222B ¹	--	C++ Programming ¹	MATH 165, CIS 256 or 254
--	or CS 202	or CS 202	--	--	Java Programming ²	CIS 259
--	--	CS 220	--	--	Prog. with Data Structures	CIS 257
CE 250	--T	--T	CE 250	CE 250	Statics	PHYS 241
CE 251	--T	--T	ME 261	CE 251	Dynamics	PHYS 242
CE 350A	--T	--T	CE 350A	CE 350A	Mechanics of Deform. Bodies	
--	ECE 235 ³	ECE 235 ³	ENGR 335	ENGR 335	Elec. Circuits ³	PHYS 243
--	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 121
CHEM 210	--T	--T	CHEM 210	CHEM 210	General & Inorganic Chem.	CHEM 122
--	--	--	--	GEOL 220	Physical Geology	
MATH 150	MATH 150	MATH 150	MATH 150	MATH 150	Calculus I	MATH 162
MATH 250	MATH 250	MATH 250	MATH 250	MATH 250	Calculus II	MATH 221
MATH 251	MATH 251	MATH 251	MATH 251	MATH 251	Calculus III	MATH 222
MATH 305	MATH 305	MATH 305	MATH 305	MATH 305	Diff. Equations	MATH 225
--	--T	--T	--	--	Intro. to Linear Algebra	MATH 224
PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	Univ. Physics I	PHYS 221
PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	Univ. Physics II	PHYS 222
PHYS 205C + PHYS 255C	Phys 205C ⁴ + Phys 255C	Phys 205C ⁴ + Phys 255C	--	--	Univ. Physics III	PHYS 224

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

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

³ One hour of Electrical Circuits Laboratory will be required for Electrical and Computer Engineering Majors.

⁴ 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

Southeastern Illinois College (Harrisburg) 2008-10
 College Name/Catalog Date

SIUC 2008-09	Southeastern (Harrisburg) Community College 2008-10	
Electrical Engineering Technology	Course Title	Course Substitute(s)
ENGR 222B	C++ Programming	MATH 165, CIS 256, 254, or 257
--T	Engineering Drawing I	GRAP 121
--T	Engineering Drawing II	GRAP 122
ET 238	Digital Electronics	
ET 245A	Elec. Systems	
--T	Statics	PHYS 241
--T	Dynamics	PHYS 242
ET 304A ¹	Electrical Circuits ¹	PHYS 243
--T	Strength of Materials	
CHEM 140A	Chemistry	CHEM 123
MATH 108 + 109	College Algebra & Trigonometry	MATH 161 or (128 + 126)
MATH 150	Calculus I	MATH 162
MATH 250	Calculus II	MATH 221
PHYS 203A + PHYS 253A	College Physics I	PHYS 221 or 121
PHYS 203B + PHYS 253B	College Physics II	PHYS 222

¹ One hour of Electrical Circuits Laboratory will be required for Electrical Engineering Technology Majors.

--T Not required but will count as Technical Elective

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

Southeastern Illinois College (Harrisburg) 2008-10
College Name/Catalog Date

SIUC 2008-09		Southeastern (Harrisburg) Community College 2008-10
Industrial Technology	Course Title	Course Substitute(s)
IT 105	Computer-Aided Drafting	GRAP 121
IT 208	Manufacturing Process	
IT 307 or MATH 140	Short Course in Calculus	MATH 143
MATH 111	College Algebra and Trigonometry	MATH (128 + 126) or 161
PHYS 203A + PHYS 253A	College Physics I	PHYS 221 or 121
PHYS 203B + PHYS 253B	College Physics II	PHYS 222
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