

COLLEGE OF ENGINEERING

ENGINEERING

Southern Illinois University at Carbondale

Course Substitution List

Illinois Central College 2008-09

College Name/Catalog Date

SIUC 2008-09					Illinois Central College 2008-09	
Civil Engineering	Computer Engineering	Electrical Engineering	Mechanical Engineering	Mining Engineering	Course Title	Course Substitute(s)
ENGR 102	--	--	ENGR 102	ENGR 102	Eng. Graphics	ENGR 113
--	--	--			Fortran Prog.	
--	ECE 222 <b>or</b> CS 202	ECE 222 <b>or</b> CS 202	ENGR 222B <sup>1</sup>	--	C++ Prog. <sup>1</sup>	ENGR 230 <sup>1</sup> <b>or</b> CMPSC 125
--	CS 202	CS 202	--	--	JAVA Prog. <sup>2</sup>	CMPSC 235 <sup>2</sup>
--	CS 220	--	--	--	Prog. Data Structures	CMPSC 212 <sup>2</sup>
CE 250	--T	--T	CE 250	CE 250	Statics	ENGR 251
ME 261	--T	--T	ME 261	ME 261	Dynamics	ENGR 252
CE 263	--	--	--	CE 263	Surveying	ARCTK 113 + 114
CE 350A	--T	--T	CE 350A	CE 350A	Mechanics of Deform. Bodies	
--	ECE 235	ECE 235	ENGR 335 <sup>5</sup>	ENGR 335	Elec. Circuits	ENGR 240 + 241 <sup>5</sup>
--	ECE 225 <sup>4</sup>	ECE 225 <sup>4</sup>	--	--	Digital Systems	ENGR 242 <sup>4</sup>
CHEM 200 + CHEM 201	CHEM 200 <sup>3</sup> + CHEM 201	CHEM 200 <sup>3</sup> + CHEM 201	CHEM 200 + CHEM 201	CHEM 200 + CHEM 201	Intro. Chem. Principles	CHEM 130
CHEM 210	--T	--T	CHEM 210	CHEM 210	General & Inorganic Chem.	CHEM 132
--	--	--	--	GEOL 220	Physical Geology	EASC 116
MATH 150	MATH 150	MATH 150	MATH 150	MATH 150	Calculus I	MATH 222
MATH 250	MATH 250	MATH 250	MATH 250	MATH 250	Calculus II	MATH 223
MATH 251	MATH 251	MATH 251	MATH 251	MATH 251	Calculus III	MATH 224
MATH 305	MATH 305	MATH 305	MATH 305	MATH 305	Diff. Equations	MATH 250
--	--T	--T	--	--	Intro. to Linear Algebra	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 211 + 213
PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	Univ. Physics II	PHYS 212
PHYS 205C + PHYS 255C	PHYS 205C <sup>3</sup> + PHYS 255C	PHYS 205C <sup>3</sup> + PHYS 255C	--	--	Univ. Physics III	PHYS 214

<sup>1</sup> "C++" Programming is Recommended for Mechanical Engineering Majors.

<sup>2</sup> Electrical and Computer Engineering Majors may take C++ or JAVA Programming.

<sup>3</sup> Third Science Course may be Chemistry I **or** Physics III for Electrical and Computer Engineering Majors.

<sup>4</sup> One Hour of Laboratory in Digital Systems will be required at SIUC.

<sup>5</sup> Circuits Laboratory not required for Mechanical Engineering Majors.

-- Not required

--T Not required but will count as Technical Elective

COLLEGE OF ENGINEERING  
ENGINEERING TECHNOLOGY  
Southern Illinois University at Carbondale  
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SIUC 2008-09	Illinois Central College 2008-09	
Electrical Engineering Technology	Course Title	Course Substitute(s)
ENGR 222B	C++ Programming	ENGR 230 <b>or</b> CMPSC 125
--T	Engineering Drawing I	MECTK 111, ENGR 113
--T	Engineering Drawing II	MECTK 123
ET 238	Digital Electronics	ELCTK 145
ET 245A + 304A	Elec. Systems + Electrical Circuits	ELCTK (141 + 140)
ET 403A	Electronics	ELCTK 230
--T	Processes Lab	MECTK 138
--T	Statics	MECTK 204, ARCTK 203, <b>or</b> ENGR 251
--T	Dynamics	ENGR 252
--T	Materials	MECTK 232
CHEM 140A	Chemistry	CHEM 120
MATH 108 + 109	College Algebra & Trigonometry	ELCTK 135 <b>or</b> MATH (115 + 120) <b>or</b> MATH 165
MATH 150	Calculus I	MATH 222
MATH 250	Calculus II	MATH 223
PHYS 203A + PHYS 253A	College Physics I	PHYS 112 <b>or</b> PHYS 120
PHYS 203B + PHYS 253B	College Physics II	PHYS 113 <b>or</b> PHYS 121
--T	Microprocessors; Transducers and Electronic Instruments; Electronic Communications	ELCTK 245;220;250

--T Not required but will count as Technical Elective

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

Illinois Central College 2008-09  
College Name/Catalog Date

SIUC 2008-09		Illinois Central College 2008-09
Industrial Technology	Course Title	Course Substitute(s)
IT 110	Geometric Dimensioning & Tolerancing	MECTK 116
IT 208	Manufacturing Processes	MECTK 138
IT 270 <b>or</b> CS 200B	Introduction to Business Computing	CMPSK 120
IT 307 <b>or</b> MATH 140	Short Course in Calculus	MATH 135
MATH 111	College Algebra and Trigonometry	MATH (115 + 120), ELCTK 135, <b>or</b> MATH 165
PHYS 203A + PHYS 253A	College Physics I	PHYS 112 <b>or</b> PHYS 120
PHYS 203B + PHYS 253B	College Physics II	PHYS 113 <b>or</b> PHY 121
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.