

COLLEGE OF ENGINEERING

ENGINEERING

Southern Illinois University at Carbondale

Course Substitution List

Illinois Valley Community College 2007-09

College Name/Catalog

Date

SIUC 2008-09					Illinois Valley Community College 2007-09	
Civil Engineering	Computer Engineering	Electrical Engineering	Mechanical Engineering	Mining Engineering	Course Title	Course Substitute(s)
ENGR 102	--	--	ENGR 102	ENGR 102	Eng. Graphics	CAD 1201 <b>or</b> EGR 1000
--	ECE 222 <b>or</b> CS 202	ECE 222 <b>or</b> CS 202	ENGR 222B	--	C++ Programming <sup>1</sup>	CSI 1007 <sup>2</sup> <b>or</b> MATH 2005
--	CS 220	--T	--	--	JAVA Programming <sup>2</sup>	CSI 2200
CE 250	--T	--T	CE 250	CE 250	Statics	TAM 2001
CE 251	--	--	ME 261	CE 251	Dynamics	TAM 2001
CE 350A	--	--	CE 350A	CE 350A	Mechanics of Deform. Bodies	
--	ECE 235	ECE 235	ENGR 335	ENGR 335	Elec. Circuits	
--	ECE 225	ECE 225	--	--	Digital Systems	
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	CHM 1006
CHEM 210	--T	--T	CHEM 210	CHEM 210	General & Inorganic Chem.	CHM 1007
--	--	--	--	GEOL 220	Physical Geology	GEL 1008
MATH 150	MATH 150	MATH 150	MATH 150	MATH 150	Calculus I	MTH 2001
MATH 250	MATH 250	MATH 250	MATH 250	MATH 250	Calculus II	MTH 2002
MATH 251	MATH 251	MATH 251	MATH 251	MATH 251	Calculus III	MTH 2003
MATH 305	MATH 305	MATH 305	MATH 305	MATH 305	Diff. Equations	MTH 2007
--	--T	--T	--	--	Intro. to Linear Algebra	
PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	Univ. Physics I	PHY 1001
PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	Univ. Physics II	PHY 2001
PHYS 205C + PHYS 255C	Phys 205C <sup>3</sup> + Phys 255C	Phys 205C <sup>3</sup> + Phys 255C	--	--	Univ. Physics III	PHY 2002

<sup>1</sup> C++ Programming is recommended for Computer, Electrical, and Mechanical Engineering Majors.

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

<sup>3</sup> 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

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SIUC 2008-09	Illinois Valley Community College 2007-09	
	Course Title	Course Substitute(s)
Electrical Engineering Technology		
ENGR 222B	C++ Programming	CSI 1007 <b>or</b> MATH 2005
ET 238	Digital Electronics	ELT 2204
ET 245A	Elec. Systems	ELT 1204
ET 304A <sup>1</sup>	Electrical Circuits	
--T	Strength of Materials	
CHEM 140A	Chemistry	CHM 1004
MATH 111	College Algebra & Trigonometry	MTH (1003 + 1004) <b>or</b> 1005
MATH 150	Calculus I	MTH 2001
MATH 250	Calculus II	MTH 2002
PHYS 203A + PHYS 253A	College Physics I	PHY 1200 <b>or</b> 2003
PHYS 203B + PHYS 253B	College Physics II	PHY 1201 <b>or</b> 2004

<sup>1</sup> 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 at Carbondale  
 Course Substitution List

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SIUC 2008-09		Illinois Valley Community College 2007-09
Industrial Technology	Course Title	Course Substitute(s)
IT 110	Geometric Dimensioning & Tolerancing	DFT 1201
IT 208	Manufacturing Processes	MET 1202
IT 270 or CS 200B	Introduction to Business Computing	CSI 1002
IT 307 or MATH 140	Short Course in Calculus	MTH 1007
MATH 111	College Algebra and Trigonometry	MTH 1005 <b>or</b> (1003 + 1004)
PHYS 203A + PHYS 253A	College Physics I	PHY 1200 <b>or</b> 2003
PHYS 203B + PHYS 253B	College Physics II	PHY 1201 <b>or</b> 2004
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.